POST UTME QUESTIONS AND ANSWERS

2010 to 2023 (exception of 2016)

JAMB Subject combination chart Included

College of Medicine

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College of Medicine

JAMB Subject Combination chart for RSU

Course	UTME Combination	O level Requirement
		Five (5) credit passes
Mathematics	Mathematics, physics,	Including English
	Chemistry/biology, Us of English	language. Mathematics,
Medicine and		physics, chemistry/Biology
Surgery		
	Use of English, Mathematics,	To include English
	Physics and chemistry or biology	language, Mathematics.,
		physics plus two (2) other
		science subject
	Use of English, Physics,	In English, Physics,
	Mathematics. And any other	chemistry, Mathematics
	science Subject.	and any other science subject.
	Use of English, Chemistry,	In English, Mathematics,
	Mathematics and any other	Physics, chemistry and
	science subject.	biology
	Use of English, Physics,	English, Mathematics,
	Chemistry and biology or	Physics, chemistry and
	Mathematics is accepted	Biology
	Use of English, Biology and any	In English, Mathematics,
	two (2) of physics, chemistry and	Biology and two (2) other
	Mathematics.	science subject
	Use of English, Mathematics,	In English, Biology,
	Biology or Geography, chemistry	chemistry, Mathematics
	or physics.	and any other subject

Use of English, Biology, Chemistry and either physics or Mathematics	In English, Mathematics, chemistry, biology and physics
Use of English, Biology or agriculture science, Chemistry and physics or Mathematics.	In English, Mathematics, Chemistry and biology or Agric. Science and any other subject
Use of English, Chemistry, Biology and either physics or Mathematics.	In English Language, Biology, Mathematics., Chemistry and any other one (1) of Health science, statistics, physics and Geography.

xeera.ng

QUESTION NO: 1	A. he will be allowed to complete the
Choose the correct option.	programme in 10 semesters, provided he maintains a
	CGPA of 1.50 and above
Absence from school examinations will only be	 B. he will be allowed to complete the
considered on medical premises as approved by	programme in 12 semesters, provided he maintains a CGPA of 1.50 and above
A. the Dean of the faculty	C. he will be allowed to complete the
B. the Director of the University Health	programme in 14 semesters, provided he maintains a
Services	CGPA of 2.00 and above
C. the Head of Exams and Records	 D. he will be allowed to complete the
D. the Senate	programme in 12 semesters, provided he maintains a
The correct answer is option [B]	CGPA of 2.00 and above
QUESTION NO: 2	The correct answer is option [B]
Choose the correct option.	QUESTION NO: 5
	Choose the correct option.
The sum of is required as a fee for an appeal for the reassessment of examination record by a student in the Rivers State University.	Ideally, a student in a five-year degree programme in the Rivers State University should complete his programme in eight semesters. However, an exception may occur where
A. five hundred naira only	 A. he will be allowed to complete the
B. one thousand naira only	programme in 10 semesters, provided he maintains a
C. five thousand naira only xeer	CGPA of 1.50 and above
D. seven hundred naira only	2
The correct answer is option [A]	programme in 12 semesters, provided he maintains a CGPA of 1.50 and above
QUESTION NO: 3	C. he will be allowed to complete the
Choose the correct option.	programme in 14 semesters, provided he maintains a
	CGPA of 1.50 and above
The fee paid by a student who appeals for the	 D. he will be allowed to complete the
reassessment of examination record in the Rivers	programme in 15 semesters, provided he maintains a
State University is refundable only if the appeal results	CGPA of 1.50 and above
ın	The correct answer is option [C]
A. a change in score above 50%	QUESTION NO: 6
B. a change in score above 60%	Choose the correct option.
C. a change in grade	
D. an upward change of grade	A student is said to be on clear standing when
The correct answer is option [D]	A. he maintains a CGPA of at least 1.00 and
-	passes at least 70% of all his courses
QUESTION NO: 4 Choose the correct option.	B. he maintains a CGPA of at least 1.50 and
choose the correct option.	passes all his courses
Ideally, a student in a four-year degree programme in	C. he maintains a CGPA of at least 1.00 and
the Rivers State University should complete his	passes at least 80% of all his courses
programme in eight semesters. However, an exception	D. he maintains a CGPA of at least 1.50 and
may occur where	passes at least 60% of all his courses
	The correct answer is option [B]
ı	- · · · - F - 7

QUESTION NO: 7	C. 130
Choose the correct option.	© D. 100
	The correct answer is option [A]
A transfer from one department to another will	QUESTION NO: 11
involve all of the following, except the	Choose the correct option.
A. Committee of Deans B. Senate C. Pro-Chancellor and Chairman of Council D. Registrar The correct answer is option [C] QUESTION NO: 8 Choose the correct option. The approval of a transfer from one department to another in the Rivers State University is done by the	For a six-year programme in the Rivers State University, a CCE student for Direct Entry into year two is expected to earn a minimum of credit units. A. 100 B. 130 C. 190 D. 160 The correct answer is option [D]
·	QUESTION NO: 12 Choose the correct option.
A. Senate B. Registrar C. Committee of Deans D. Heads of the departments involved The correct answer is option [A]	All of these are institutes of the Rivers State University, except A. Institute of Political Studies (IPS) B. Institute of Education (IED)
_	
OUESTION NO: 9	PNA. NO C Institute of Foundation Studies (IFS)
Choose the correct option. For a four-year programme in the Rivers State University, a regular student for Direct Entry into year three is expected to earn a minimum of credit	D. Rivers Institute of Agricultural Research and Training (RIART) The correct answer is option [A] QUESTION NO: 13 Choose the correct option.
For a four-year programme in the Rivers State University, a regular student for Direct Entry into year	D. Rivers Institute of Agricultural Research and Training (RIART) The correct answer is option [A] QUESTION NO: 13
Choose the correct option. For a four-year programme in the Rivers State University, a regular student for Direct Entry into year three is expected to earn a minimum of credit units. A. 160	D. Rivers Institute of Agricultural Research and Training (RIART) The correct answer is option [A] QUESTION NO: 13 Choose the correct option is the current Registrar of the Rivers State
Choose the correct option. For a four-year programme in the Rivers State University, a regular student for Direct Entry into year three is expected to earn a minimum of credit units. A. 160 B. 130 C. 100 D. 70 The correct answer is option [D] QUESTION NO: 10	D. Rivers Institute of Agricultural Research and Training (RIART) The correct answer is option [A] QUESTION NO: 13 Choose the correct option. is the current Registrar of the Rivers State University. A. Mr. Markson B. Mieyebo B. Rev. Manasseh Y. Oguru (JP) C. Mr. Clinton Ogorobia Maxwell D. Mr. S.C Enyindah The correct answer is option [D] QUESTION NO: 14

B. Educational Foundations and Crop/Soil	
Science	A student may withdraw from the Rivers State
C. Land Surveying and Aeronautical	University with the permission of the Faculty Board
Telecommunication Engineering	and Senate, but may apply for registration within one
D. Forestry and Environment, and Chemistry	year of the withdrawal.
The correct answer is option [A]	C A. True
QUESTION NO: 15	B. False
Choose the correct option.	The correct answer is option [A]
	_
Rivers State University received its institutional	QUESTION NO: 19 Choose the correct option.
accreditation with a score of 67.25% from the National Universities Commission (NUC) in	choose the correct option.
Offiversities Confirmssion (NOC) in	is the code used for the category of courses that
A. May, 2012	are optional in the Rivers State University.
B. April, 2012	
C. June, 2012	○ A. E
© D. March, 2012	○ B. R
The correct answer is option [B]	© C. C
QUESTION NO: 16	© D. O
Choose the correct option.	The correct answer is option [A]
	QUESTION NO: 20
Which of these statements is false?	Choose the correct option.
A. The booking and payment system is used xeera .	nfccording to the grading system adopted by the
for the process of accomodation.	Kivers state offiversity, all of the following are correct,
B. Students are mandated to preview and	except
approve their ID cards for printing.	A 40% - 49% D (Satisfactory): 2points
C. Verification during physical clearance is	- 1370. B (Sudistactory). Eponts
ensured by the Admissions Officers and the Registrar.	D. 070 3370.1 (Very 1 001/1 dil). opolite
D. The online PIN shop is used to purchase	- G. 6676 6576. B (G664). Apoints
PINs for payment of Acceptance fee, Portal Access,	D. 50% - 59%: C (Average): 3points
and School fees.	The correct answer is option [A]
The correct answer is option [C]	QUESTION NO: 21
QUESTION NO: 17	Choose the correct option.
Choose the correct option.	For a five-year programme in the Rivers State
Online registration for bed spaces for hostel	University, a CCE student for Direct Entry into year
accomodation as a fresh student is done with the use	three is expected to earn a minimum of credit
of	units.
A. student's school ID Card	C A. 190
B. JAMB registration number	© B. 100
C. School fees receipt number	C. 130
D. designated hostel number by GENDER	© D. 160
The correct answer is option [B]	The correct answer is option [B]
QUESTION NO: 18	QUESTION NO: 22
Choose the correct option.	Choose the correct option.

What is the likely punishment mete on a student who is caught impersonating during an examination?	All lecturers must make available office addresses and contact time to their students.
	C A. True
A. Suspension	C B. False
□ B. F grade	The correct answer is option [A]
C. Demotion	QUESTION NO: 27
D. Dismissal	Choose the correct option.
The correct answer is option [D]	·
QUESTION NO: 23	Non-academic staff must not append their signatures
Choose the correct option.	on forms and
For the purpose of conducting examinations at the	A. D and F
undergraduate level, internal examiners only shall be	○ B. A and B
made available.	C. A and C
	D. all of the above
A. True	The correct answer is option [A]
B. False	QUESTION NO: 28
The correct answer is option [B]	Choose the correct option.
QUESTION NO: 24	
Choose the correct option.	All of the following are offences that can be
All benefit and a state of the	committed by a non-academic staff, except
All handwritten examination question papers are	A altering of examination regults
submitted to the Head of Department not later than Xeer weeks to the beginning of the semester examinations.	a.ng A. altering of examination results
	B. misappropriating university funds C renting of hovs' quarters to students and
C A. True	G. Terring or boys quarters to students and
C B. False	other persons D. none of the above
The correct answer is option [A]	The correct answer is option [D]
QUESTION NO: 25	QUESTION NO: 29
Choose the correct option.	Choose the correct option.
Which of these is an offence by a teaching staff of the	Students are expected to approach their on
university?	academic challenges such as choice of course
	electives, academic progress, etc they face in their
	departments.
A. Inclusion of continuous assessment papers	A. Course Representatives
into textbooks and handouts.	B. Deans of Faculties
B. Renting of boys' quarters to students or	C. Course Advisers
other individuals.	D. Examination Officers
C. Sexual harassment.	The correct answer is option [C]
D. All of the above.	_
The correct answer is option [D]	QUESTION NO: 30 Choose the correct option.
QUESTION NO: 26	
Choose the correct option.	The ban of the compulsory sale of handouts, course- based textbooks and practical manuals by the Senate

was a decision considered and reached at the	D. one hour
regular meeting held.	The correct answer is option [D]
	QUESTION NO: 34
A. 104th and 107th	Choose the correct option.
B. 100th and 104th	
C. 103rd and 105th	Attendance and score sheets for each class are issued
D. 105th and 107th	out by the Faculty Examination Officer to the for
The correct answer is option [A]	completion for every examination.
QUESTION NO: 31	A Chief Invigilator
Choose the correct option.	11. Cinci invigilator
	B. Departmental Examination Officer
A member task force was to be constituted to	C. Dean of the Faculty
monitor the implementation of the ban of the	D. A, B or C
compulsory sale of handouts, course-based textbooks and practical manuals to students by the Senate at the	The correct answer is option [A]
107th regular meeting.	QUESTION NO: 35
	Choose the correct option.
C A. 2-5	The students' results considered and approved by the
© B. 3-6	Faculty Board of Examiners are presented to the Dean
C. 2-6	of the Faculty.
© D. 3-5	
The correct answer is option [D]	A. True
OUESTION NO: 32	B. False
Chassa the sourcet entire VAAI	a.nhhe correct answer is option [B]
Choose the correct option. Xeer	milig I I I
	QUESTION NO: 36
Teaching staff must not delegate students and non-academic staff to:	
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations	QUESTION NO: 36 Choose the correct option. Service courses are core departmental courses
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses	QUESTION NO: 36 Choose the correct option.
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts	QUESTION NO: 36 Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department.
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses	QUESTION NO: 36 Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts IV. Handle examination results	QUESTION NO: 36 Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True B. False
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Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts IV. Handle examination results A. I, II and III B. II, III and IV C. I, II and IV D. I, II, III and IV	QUESTION NO: 36 Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True B. False The correct answer is option [B] QUESTION NO: 37 Choose the correct option.
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Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts IV. Handle examination results A. I, II and III B. II, III and IV C. I, II and IV D. I, II, III and IV The correct answer is option [D] QUESTION NO: 33 Choose the correct option. The Chief Invigilator collects answer booklets from the	Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True B. False The correct answer is option [B] QUESTION NO: 37 Choose the correct option. Faculties and Institutes that offer service courses are responsible for setting and moderating examination questions in their courses.
Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts IV. Handle examination results A. I, II and III B. II, III and IV C. I, II and IV D. I, II, III and IV The correct answer is option [D] QUESTION NO: 33 Choose the correct option.	Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True B. False The correct answer is option [B] QUESTION NO: 37 Choose the correct option. Faculties and Institutes that offer service courses are responsible for setting and moderating examination questions in their courses. A. True B. False
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Teaching staff must not delegate students and non-academic staff to: I. Supervise examinations II. Teach courses III. Mark examination scripts IV. Handle examination results A. I, II and III B. II, III and IV C. I, II and IV D. I, II, III and IV The correct answer is option [D] QUESTION NO: 33 Choose the correct option. The Chief Invigilator collects answer booklets from the Departmental Examination Officer before the	Choose the correct option. Service courses are core departmental courses handled by teaching staff in a given department. A. True B. False The correct answer is option [B] QUESTION NO: 37 Choose the correct option. Faculties and Institutes that offer service courses are responsible for setting and moderating examination questions in their courses. A. True B. False
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A. Under no condition can examinations for service courses be conducted outside the Faculty or Institutute offering the course. B. Faculties and Institutes that offer service courses are responsible for setting and moderating examination questions in their courses. C. Faculties and Institutes offering service courses are responsible for producing adequate number of question papers for examinations in their courses. D. Examination questions for service courses	
are brought to the examination halls by the Head of	
Department or Director of Institute thirty minutes	
before start of exams.	
The correct answer is option [A]	
QUESTION NO: 39	
Choose the correct option.	
Attendance and score sheets for examinations of service courses are submitted to the Faculty Examination Officer by the Faculty/Department/Programme being serviced.	
C A. True xeera.ng	3
B. False	
The correct answer is option [A]	
QUESTION NO: 40 Choose the correct option. All students of the Rivers State University are expected	
to be at their examination halls to the	
commencement of all examinations.	
A. 20 minutes	
B. 15 minutes	
C. 30 minutes	
D. 10 minutes	
D. To timilates	

OUESTION NO: 1

Read the passage carefully and answer the question.

Wives maximise their singleness and do not fret over whom they would be found by, how and when they would be found. They trust God always and strive to please Him, knowing assuredly that all good and perfect gifts come from Him.

Wives cherish their period of preparation and are not in a hurry to get over with it, which makes them not to compromise in their standards, principles and virtues according to God's word. In fact, they are not in a hurry to jump out of their preparatory period for any man because they would only become incomplete and unfulfilled if they stopped half-way through their preparatory class.

A woman may try to "impress" in order to seek the approval of some men, while wives are just impressive in all things. Not to get it wrong, wives may not be all that some men would want them to be, but most times, they turn out to be what God wants them to be to the man so that he also can become what God wants him to be.

dead, but a wife is groomed to handle the complicated patterns of relating with her in-laws. Wives are not rigid, rather they are malleable, trustworthy, loving and loveable, forgiving and forgivable, submissive and respected. They are almost always prepared for your ministry and are willing to stand by you at both good and bad times.

Remember friends, except the woman is prepared, she cannot be a wife. The period of singleness is not just a period of waiting but more of the period of preparation and training for her man. If she's not prepared a wife, it may be difficult to make her one.

Arise sisters, prepare yourselves; be wives and not just women. For it is only when a man finds a wife that he finds a good thing and obtains favour from the Lord. MARRIAGE IS ABOUT WIVES AND NOT WOMEN!

(Adapted from Peculiar Truth) Why would women prefer their parents-in-law dead?

A. They want to have the men all to themselves.

- B. They are not prepared to handle the complications of relating with their in-laws.
- C. They are prepared to handle the complications of relating with their in-laws.
- D. They will always find it difficult impressing their in-laws.

The correct answer is option [B].

QUESTION NO: 2

Read the passage carefully and answer the auestion.

Chike must have passed the house five times, yet he was still not sure. Was this the house he had visited so often in the past? The house he used to visit was a bungalow, but this house was also a bungalow. The old house was situated between two-storey buildings; this one too was so situated. But inspite of this feeling of certainty, Chike had a vague suspicion that the house he had passed so often that day might be the wrong house after all. Could an absence of two years have blurred his memory so badly? After a few moments of hesitation, Chike began to move towards the house and then stopped as if held back by an A woman may prefer you if your parents were **xeera**. nigvisible hand. His attention had been distracted by a girl of about twenty-four, who was tripping along the pavement to his right. He turned and advanced towards her, and was about to call her by what he felt was her name when he discovered that he had made a mistake in respect of her identity. Just as Chike turned from the girl to continue his quest, he heard voices shouting 'thief! thief!' and saw a crowd materialise in seconds. At the head of this justice-impelled rabble was a ludicrously fat woman who inspite of her size, bounced along with the agility of a prize athlete. This barrel bellowed loudest and clapped her hands vigorously to punctuate her outburst. And as she did so, the surplus flesh on her podgy arms quivered. 'They are all the same!' the woman screamed, addressing nobody in particular. 'They dress gorgeously, but underneath they are rogues'. Again, she clapped her hands and again, there was a quivering of loose flesh. Chike was so busily occupied with watching the antics of this woman that he did not notice at first that the object of her venom was the girl that he had seen earlier. It was this girl that was now surrounded by the crowd, with many people groaning, sighing

and hissing in unison. Chike relaxed and prepared to watch the drama unfolding before him. Chike left the girl alone because he	D. am not certain of my visit this evening The correct answer is option [D]. QUESTION NO: 6 Choose the correct option.
A. discovered that she was a thief	
B. was afraid of the fat womanC. did not know her	The sentence, "They would have already graded your exam," indicates that
O D. did not like her	C A
The correct answer is option [C].	A. event time and relevance time are the same
QUESTION NO: 3	B. event time follows relevance time
Fill in the blank space with the correct option.	C. event time precedes relevance time
	D. event time and relevance time are uncertain
Neither John nor Mary felt happy the accident.	C E. None of the above
C A. for	The correct answer is option [D]
	QUESTION NO: 7
O B. in	Read the passage carefully and answer the
C. about	question.
O D. by	Standard English refers to the authoritative and
C E. on	correct usage of the language, the medium of
The correct answer is option [C].	expression for government and education. Its
OLIECTION NO. 4	opposite is a dialectal variant of the language, that is,
OLIECTION NO. 4	opposite is a dialectal variant of the language, that is, a.n.Q.cepted and recognised words, expressions and structures peculiar to a smaller group of language users who are generally set apart from standard usage by cultural group or geographical region. For example, Nigerian, American, Irish and British English
QUESTION NO: 4 Fill in the blank space with the correct option. I started writing at 9am; it is now 10am. By 11am, I	a.n. cepted and recognised words, expressions and structures peculiar to a smaller group of language users who are generally set apart from standard usage by cultural group or geographical region. For
QUESTION NO: 4 Fill in the blank space with the correct option. I started writing at 9am; it is now 10am. By 11am, I writing for two hours.	a.n.Qcepted and recognised words, expressions and structures peculiar to a smaller group of language users who are generally set apart from standard usage by cultural group or geographical region. For example, Nigerian, American, Irish and British English differ from one another in many respects and each is identifiable, yet in every case the standard variety approaches a single and hypothetical classification
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D. a recognised formal standard	C A. a relative pronoun
The correct answer is option [B]	C B. a personal pronoun
QUESTION NO: 8	C. a reciprocal pronoun
Fill in the blank space with the correct option.	_
Yours is to command, is to obey.	O D. a reflexive pronoun
rours is to command, is to obey.	© E. an interrogative pronoun
O A. theirs'	The correct answer is option [D]
O B, their's	QUESTION NO: 12 Choose the correct option.
C. their	choose the correct option.
	refers to the specific names of people, animals,
D. theirs	places, ideas and concepts.
The correct answer is option [D]. When the pronoun denoting ownership is not followed by a noun, it usually takes the letter (s)	A. Proper Noun B. Common Noun
without the apostrophe. QUESTION NO: 9	
Fill in the blank space with the correct option.	C. Specific Noun
	D. A and C
The road cannot be constructed without	E. B and C
A. those huge earth-moving machines	The correct answer is option [D]
_	QUESTION NO: 13
B. those huge-moving earth machines C. these parts require house machines Xeer	Choose the correct option.
C. those earth-moving huge machines	Which of the following is an example of a complex
D. machines those huge earth-moving	sentence?
The correct answer is option [A].	
QUESTION NO: 10	A. The woman walked into the sitting room and
Fill in the blank space with the correct option.	found Olu sitting on a chair.
The military is something to watch on national	C B. The teacher flogged him because he jumped
days.	over the fence.
	C. Your creditor came yesterday when you were
C A. fight	not home, but I was able to pay him.
O B. marching	D. Nike went to the market yesterday.
C. regelia	C E. Adenike was told not to break the news to
D. match past	her in-laws. The correct answer is option [B]
C E. parade	QUESTION NO: 14
The correct answer is option [E].	Fill in the blank space with the correct option.
QUESTION NO: 11	· · · · · · · · · · · · · · · · · · ·
Choose the correct option.	She went to collect her exam results.
In the sentence "We need to get OURSELVES up to	C A. pretty
speed", the capitalised word is an example of	B. cleverly
	•

C. hopefully	QUESTION NO: 18
O D. bitterly	Fill in the blank space with the correct option.
-	did the President appoint as a Special Adviser
E. giggling The correct engager is entire [C]	did the President appoint as a Special Adviser Economic Affairs?
The correct answer is option [C] QUESTION NO: 15	
Choose the correct option.	A. When/for
<u></u>	B. Who/on
If speaking time is now, and event time is tomorrow, which of the following sentences expresses the tense	C. Where/in
correctly?	D. Whom/in
A I thought shout danning you	E. Who/for
A. I thought about slapping you.	The correct answer is option [B].
B. I'm thinking about slapping you.	QUESTION NO: 19
C. I will be thinking about slapping you.	Choose the correct option.
D. I am thinking of how I slapped you.	Identify the prefix which matches the word 'standard'
E. I thought of how i slapped you.	to give it the meaning 'below standard'.
The correct answer is option [C]	C A. sub-
QUESTION NO: 16	
Fill in the blank space with the correct option.	C B. under-
This machinery needs to be before putting it into	C. mini-
operation. Xeer	a.ng D. counter-
C A, suited	C E. pre-
	The correct answer is option [A]
B. adjusted	QUESTION NO: 20
C. accommodated	Fill in the blank space with the correct option.
O. conformed	His suggestion is completely the point and
C E. used	cannot be accepted.
The correct answer is option [B]	C A. to
QUESTION NO: 17	
Fill in the blank space with the correct option.	© B. about
As Brian is having his summer vacation, he is	C. beside
about the village all day long.	C D. on
O A. striding	© E. under
O B. staggering	The correct answer is option [C].
	QUESTION NO: 21 Fill in the blank space with the correct option.
C. running	
D. sauntering	By the end of this year, in this town for eleven
E. none of the above	years.
The correct answer is option [D]	

C A. I'm living	The correct answer is option [D]. The word 'SOMETHING' is an indefinite pronoun
B. I'd be living	because it refers to an unspecified thing.
C. I'll live	QUESTION NO: 25
D. I'll have lived	Choose the correct option.
E. I have lived	If speaking time is now, and event time is now, which
The correct answer is option[D].	of the following sentences expresses tense correctly?
QUESTION NO: 22	
Fill in the blank space with the correct option.	A. I thought about slapping you.
The pieces of evidence of all the accused persons	B. I'm thinking about slapping you.
by the judge sitting at No. 2 Assizes last week.	C. I will be thinking about slapping you.
A. were disbelieved	D. All of the above
B. was disbelieved	E. None of the above
C. is disbelieved	The correct answer is option [B]
D. are disbelieved	QUESTION NO: 26 Choose the correct option.
© E. has been disbelieved	Choose the correct option.
The correct answer is option [A].	The verb tense and aspect of the sentence "Heather
QUESTION NO: 23	will be attending the conference for chairs" is
Fill in the blank space with the correct option.	A. future progressive
xeer	a.ny
Good exercise may help a person fight cold.	B. future perfect
C A. out	C. future perfect progressive
O B. at	D. present perfect progressive
C. with	© E. present progressive
O D, off	The correct answer is option [A] QUESTION NO: 27
© E. of	Fill in the blank space with the correct option.
The correct answer is option [D].	
QUESTION NO: 24	In the sentence "Olu PASSED the last stage of the
Choose the correct option.	examination last year," the capitalized word is an example of a
In the sentence "SOMETHING is burning", the capitalised word is an example of	C A. simple past tense
	B. past continuous tense
A. a noun	C. past perfect tense
B. a personal pronoun	O D. past perfect continous tense
C. a reciprocal pronoun	C E. simple past continous tense
D. an indefinite pronoun	The correct answer is option [A]
© E. a demonstrative pronoun	QUESTION NO: 28
	Choose the correct option.

	D. All of the above.
In the sentence "The milk TASTES spoilt", the	C E. None of the above.
capitalised word is an example of	The correct answer is option [D]
A. a transitive verb	QUESTION NO: 32
O B. an infinite verb	Choose the correct option.
C. an auxiliary verb	The sentence, "They had already graded your exam",
D. a linking verb	indicates that
© E. a finite verb	
The correct answer is option [A]	A. event time precedes relevance time
A transitive verb is a verb that requires an object	C B. event time follows relevance time
in order to be gramatical QUESTION NO: 29	C. event time and relevance time are the same
Choose the correct option.	D. relevance time precedes event time
	E. None of the above
The teacher asked the noisy students to talking.	The correct answer is option [A]
A. give up	QUESTION NO: 33 Choose the correct option.
O B. leave	Choose the correct option.
C. quit	For our Sunday lunch, mother always cooked a
D, abandon	<u> </u>
- 200	ra.ng R large thick spicy not of groundnut soup
2. p. s. s. s.	B. large, trick, spicy pot or grounding soup
The correct answer is option [C] QUESTION NO: 30	C. large, spicy, thick groundnut pot of soup
Choose the correct option.	C D. large, spicy pot of thick groundnut soup
	E. large groundnut pot of thick, spicy soup
My best friend me in a time of need.	The correct answer is option [A].
A. deserted	QUESTION NO: 34 Choose the correct option.
O B. utilized	
C. adapted	Identify the sentence in which the subject and verb do
O D. resigned	not agree.
© E. disguised	A. Not the robbers, but the policeman was
The correct answer is option [A]	responsible for the theft.
QUESTION NO: 31	B. Chemistry, as well as Physics is compulsory.
Choose the correct option.	C. Bread and butter is delicious.
Which of the following is a function of an adverb?	D. Neither the chairman nor his councillors has
Which of the following is a function of an adverb?	a sense of direction.
A. It modifies verbs.	C E. Everyone, but you is happy.
B. It modifies adjectives.	The correct answer is option [D]
C. It modifies other adverbs.	QUESTION NO: 35

Choose from the options lettered A-E, the option	C A. to
that most appropriately completes the sentence.	B. from
I wish I his name.	C. through
A. am knowing	O D. for
	C E. at
B. knew	The correct answer is option [D]
C. know	QUESTION NO: 39
D. have known	From the options lettered A-E, choose the word
C E. knows	that best completes the sentence.
The correct answer is option [B]	Neither Fatima nor Jennifer in the house
QUESTION NO: 36	when the storm ripped off our roof.
Choose from the options lettered A-E, the option that most appropriately completes the sentence.	C A. were
The boy is than his father.	C B. are
	C. is
A. more taller	D. was
B. most taller	C E. where
C. much taller	The correct answer is option [D]
D. more taller	QUESTION NO: 40
C E, so taller	a. Nigom the options lettered A-E, choose the word
The correct answer is option [C]	that best completes the sentence.
QUESTION NO: 37	That luggage is for the soldier.
From the options lettered A-E, choose the word	
that best completes the sentence.	A. tall ECOMOG black
The principal, together with the staff, visited the	B. tall black ECOMOG
sick student.	C. ECOMOG tall black
	D. black tall ECOMOG
C A. have	E. black ECOMOG tall
B. were	The correct answer is option [B]
C. could	QUESTION NO: 41
C D. has	From the options lettered A-E, choose the word
C E. would	that best completes the sentence.
The correct answer is option [A]	We are worried by the existing between the
QUESTION NO: 38	two factions of the party.
From the options lettered A-E, choose the word	
that best completes the sentence.	A. distraction
Our bus headed Kaduna immediately.	C B. commotion
	C. confusion

D. rivalry E. storm	From the options lettered A-E, choose the word that best completes the sentence.
The correct answer is option [D] QUESTION NO: 42	The tenant speaks well about his landlord is uniquely kind hearted.
From the options lettered A-E, choose the word that best completes the sentence.	C A. which
The signature on the document lacked; so it was rejected.	C. whom
A. clarity	O D. who's
B. authenticity	© E. whose
_	The correct answer is option [B]
C. formality	QUESTION NO: 46
C D. simplicity	From the options lettered A-E, choose the word
C E. faults	that best completes the sentence.
The correct answer is option [B]	The statement, "The policeman persuaded him to
QUESTION NO: 43	leave", re-written in the passive form becomes, He
From the words lettered A-E, choose the word that	persuaded by the policeman to leave.
best completes the sentence.	
	A. has been
We shall not WASSCE next May.	O B. is
A. sit in	C. is being
C B. sit at	O D. was
C. sit	C E. had being
D. sit to	The correct answer is option [D]
C E. sit with	QUESTION NO: 47 Choose from the options lettered A-E, the one that
The correct answer is option [B]	best completes the sentence.
QUESTION NO: 44	
From the words lettered A-E, choose the correct option that best completes the sentence.	My uncles are successful medical practitioners, of them a clinic.
The cook should have the pepper and the	A. all, owned
tomatoes together.	O B. both, owns
	C. every, owns
A. ground	D. each, owns
B. grind	© E. all, owns
C. grings	The correct answer is option [D]
O. grounded	QUESTION NO: 48
C E. grinding	From the options lettered A-E, choose the word
The correct answer is option [D]	that best completes the sentence.
OUESTION NO: 45	

He left the town early this morning he arrived very late.	C D. Bead
	C E. Heed
C A. although	The correct answer is option [A].
O B. but	QUESTION NO: 52
C. despite	Choose the correct option.
D. even	Which of the following words has the STRESS on the
_	FIRST SYLLABLE?
C E. than	
The correct answer is option [B] QUESTION NO: 49	A. Resist
Choose from the options lettered A -E, the one	B. Drawer
that best completes the sentence.	C. Confirm
	C D. Intact
I was by the girl's story.	C E. Misread
A. taken away	The correct answer is option [B].
B, taken about	QUESTION NO: 53
C. taken off	From the options lettered A - E, choose the word
_	that BEST RHYMES with the given word.
D. taken up	Quicken
E. taken with	
	era.ng A. Queen
QUESTION NO: 50 From the options lettered A - E, choose the word	B. Kitten
that contains the same sound as the capital letters	C. Kitchen
in the word below:	D. Chicken
colocul	C E. Hasten
splaSH	The correct answer is option [D].
C A. Measure	QUESTION NO: 54
O B. Buzz	Choose from options lettered A - D the one that
C. Boss	contains the sound segmentrepresented by the given phonetic symbol.
O D. Bash	
The correct answer is Option [D].	/θ/
QUESTION NO: 51	
From the options lettered A - E, choose the word	C A. rough
that BEST RHYMES with the given word.	B. that
Head	C. them
	D. thought
A. Said	The correct answer is option [D]
O B. Heard	QUESTION NO: 55
C. Sad	

From the words lettered A-E, choose the word the has the same consonant sound(s) as the one represented by the letter(s) underlined.	O B. chin
<u>p</u> ropose	C. gearD. feather
C A. pneumonia	© E. sing
O B. psyche	The correct answer is option [C]
	QUESTION NO: 59
C. psalms	Choose from the options lettered A - E, the one
D. rupture	that has the same consonant sound as the sound represented by the underlined letter.
© E. phenomenon	represented by the undermied letter.
The correct answer is option [D]	e <u>x</u> act
QUESTION NO: 56 From the options lettered A to D, choose the one	
that has the correct stress pattern.	Th oxeco
·	© B. excel
parochial	C. exhaust
A. PA-ro-chi-al	D. except
B. pa-RO-chi-al	C E. expel
	The correct answer is option [C]
C. pa-ro-CHI-al	QUESTION NO: 60
	Xeena. Nigom the options lettered A to E, choose the word that rhymes with the given word.
The correct answer is option [A]	
QUESTION NO: 57 Choose from the options lettered A to E, the one	share
that has the sound represented by the given phonetic symbol.	A. air B. beard
/ 3:/	C. fierce
_	D. sure
A. attorney	© E. shoe
B. surprising	The correct answer is option [A]
C. wonderful	QUESTION NO: 61
O D. abduction	Choose the word that has the same vowel sound as
C E. price	the one represented by the underlined letters.
The correct answer is option [B]	h <u>ea</u> d
QUESTION NO: 58	
Choose from the options lettered A - E, the one	C A. heed
that has the same consonant sound as the sound represented by the underlined letter.	C B. ingrate
	— C. job
joke	© D. red

C E. hear	
The correct answer is option [D]	C A. deviate
QUESTION NO: 62	C B. devout
Choose the word that has the same vowel sound as	C. festive
the one represented by the underlined letter.	O D, humour
w <u>o</u> lf	The correct answer is option [B]
	QUESTION NO: 66
A. wood	From the options lettered A to E, choose the word that rhymes with the given word.
B. golf	that myriles with the given word.
C. woe	fork
D. dove	
C E. dive	A. hawk
The correct answer is option [A]	O B. rot
QUESTION NO: 62	C. work
Choose the word that has the same vowel sound as the one represented by the underlined letter.	C D. murk
	C E. house
w <u>o</u> lf	The correct answer is option [A]
C A. wood	QUESTION NO: 67
	The word written in capital letters has an an EMPHATIC STRESS. Choose the option that best
	fits the sentence.
C. woe	Four Nigorian politicians are ALTRI JISTIC
D. dove	Few Nigerian politicians are ALTRUISTIC.
© E. dive	A. Are many Nigerian politicians altruistic
The correct answer is option [A]	B. Are few Ghanaian politicians altruistic?
QUESTION NO: 64 From the options lettered A – D, choose the one	C. Are few Nigerian businessmen altruistic?
that shows the correct stress pattern of the given	D. Are few Nigerian politicians selfish?
word.	© E. Are many Nigerian senators altruistic?
incontrovertible	The correct answer is option [D]
	QUESTION NO: 68
A. Incontrovertible	From the options lettered A to E, choose the word
B. inCONtrovertible	that has the sound represented by the given phonetic symbol.
C. inconTROvertible	phonetic symbol.
D. incontroVERtible	/j/
The correct answer is option [D]	
QUESTION NO: 65	C A. June
Choose the correct option.	C B. dew
All of the following words have the same stress pattern except	C C. grew

0 -	OUESTION NO. 73
C D. blue	QUESTION NO: 72 From the options lettered A - E, choose the one
C E. engine	that has the same vowel sound as the sound
The correct answer is option [A]	represented by the underlined letter.
QUESTION NO: 69	
From the options lettered A to E, choose the word	g <u>a</u> te
that has the sound represented by the given	<u> </u>
phonetic symbol.	C A. ant
/i/	O B. brass
<u> </u>	C. cap
A. bird	D. pray
C B. feed	C E. fear
C. rhyme	The correct answer is option [D]
O. women	QUESTION NO: 73
C E. stir	From the options lettered A - E, choose the one that has the same consonant sound as the sound
The correct answer is option [C]	represented by the underlined letter.
QUESTION NO: 70	
From the options lettered A - E, choose the one	<u>J</u> une
that has the same vowel sound as the sound	
represented by the underlined letter.	A. figure
b <u>e</u> t xee	na.ng Corist
	C. gist
A. days	O D. dagger
B. says	C E. guide
C. legal	The correct answer is option [C]
O D. senile	QUESTION NO: 74
C E. here	From the options lettered A - E, choose the one that has the same consonant sound as the sound
The correct answer is option [D]	represented by the underlined letter.
QUESTION NO: 71	
From the options lettered A - E, choose the one	<u>sh</u> out
that has the same vowel sound as the sound	
represented by the underlined letter.	A. moustache
h <u>u</u> t	O B. match
	C. witch
A. crop	O D. chemist
B. fun	C E. cheat
C. hop	The correct answer is option [A]
O D. tube	QUESTION NO: 75
C E. put	From the options lettered A - E, choose the one that has the same consonant sound as the sound
The correct answer is option [B]	represented by the underlined letter.

conv	ver <u>s</u> e
0	A. please
\circ	B. seize
\circ	C. advice
\circ	D. phase
\circ	E. fuse
The	correct answer is option [C

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QUESTION NO: 1

Choose the correct option.

To arrive on schedule, a train is to cover a distance of $60 \ km$ at $72 \ km/hr$. If it starts $10 \ minutes$ late, at what speed must it move to arrive on schedule?

- A. 60 km/hr
- B. 80 km/hr
- C. 90 km/hr
- D. 108 km/hr

The correct answer is option [A]

QUESTION NO: 2

Choose the correct option.

Factorise $6^{2x+1} + 7(6^x) - 5$.

- $^{\circ}$ A. 1 m_{2} or $^{-3}$ m_{5}
- B. ¹¤₂ or ⁻⁵¤₃
- C. 2 or ⁻⁵¤₃
- D. ¹¤₂ or ⁵¤₃

The correct answer is option [B].

$$6^{1} \times (6^{x})^{2} + 7(6^{x}) - 5$$

Let y represent 6^x

$$=> 6y^2 + 7y - 5 = 0$$

$$6y^2 + 10y - 3y - 5 = 0$$

$$2y(3y + 5) - 1(3y + 5) = 0$$

$$(2y - 1)(3y + 5) = 0$$
; $y = \frac{1}{2}$ or $\frac{-5}{3}$

Since $y = 6^x$, then $6^x = \frac{1}{2}$ and $6^x = \frac{-5}{3}$.

Therefore, x = -5/3 or $\frac{1}{2}$

QUESTION NO: 3

Choose the correct option.

If $\sqrt{x^2+9} = x+1$, solve for x.

- A. 5
- O B. 4
- C. 3
- O D. 1

The correct answer is option [B]

$$x^2 + 9 = (x + 1)^2 x^2 + 9 = x^2 + 2x + 1$$

therefore 2x = 8; x = 8/2 = 4.

QUESTION NO: 4

Choose the correct option.

Which of the following is in descending order?

- A. 9/10, 4/5,3/4, 17/10
- \circ B. $\frac{4}{5}$, $\frac{9}{10}$, $\frac{3}{4}$, $\frac{17}{20}$
- C. 9/10, 17/20,4/5, 3/4
- D. 4/5, 9/10, 17/10, 3/4

The correct answer is option [C].

$$9/_{10} = 0.9$$
, $17/_{20} = 0.85$, $4/_{5} = 0.8$, $3/_{4} = 0.75$

The descending order is $9/_{10}$, $17/_{20}$, $4/_{5}$, $3/_{4}$

QUESTION NO: 5

Choose the correct option.

The first and last term of an A.P. are 10 and 90, find the number of terms in the A.P. if the sum of term is 750.

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- A. 22
- B. 35
- C. 15
- O D. 18

The correct answer is option [C]. Solution:

 $S_n = 750$, a = 10, L = 90. Using the equation

$$S_{\scriptscriptstyle n} = ^{{\scriptscriptstyle [n'(a+L)]}/{\scriptscriptstyle 2}} \ ^{\circledR} \ 2S_{\scriptscriptstyle n} = n[a+L],$$
 then, $n = {\scriptscriptstyle [2S_{\scriptscriptstyle n}]}/{\scriptscriptstyle [a+L]}$

 $_{L1} = \frac{[2.750]}{[10 + 90]} = \frac{1500}{100} = 15.$

QUESTION NO: 6

Choose the correct option.

The angle of elevation of a storey building from a point X on the ground is j° and the distance from the point X to the foot of the building is 80cm. If the height of the building is 70m, find j correct to 1 decimal place.

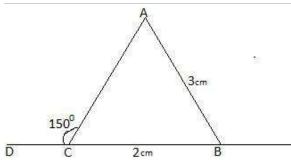
- A. 90.9°
- B. 81.3°
- C. 41.2°

D. 39.1°

The correct answer is option [C].

QUESTION NO: 7

Use the diagram to answer the question.



In the diagram, |BC| = 2cm, |AB| = 3cm and $DACD = 150^{\circ}$, what is the value of $SACD = 150^{\circ}$

- A. ¹/₃
- B. √3
- [©] C. √4
- O D. 2

The correct answer is option [A].

QUESTION NO: 8

Choose the correct option.

Find the coordinates of the midpoint of the line joining the points [4,-6] and [-3,7].

- \bullet A. [-1 α_2 , 2]
- B. [2, 5]
- C. [-1\pi_2, -1\pi_2]
- D. [2, 3]

The correct answer is option [C]. Solution: Hint [Apply the formula]; $x_2 + x_1/2$, $y_2 + y_1/2 = -3+4/2$, $y_3 - 4/2$, $y_4 - 4/2$, $y_5 - 4/2$, $y_6 - 4/2$, $y_7 - 4/2$, $y_8 - 4/2$,

OUESTION NO: 9

Choose the correct option.

If x - 2 is a factor of $x^3 + 4x^2 + kx + 4$. What is the value of k?

- A. 12
- B. 28
- C. -14

O D. 14

The correct answer is option [C]. Solution: f[x-2] = 0; x-2=0, therefore, x=2, substitute the value of x into the equation $x^3 + 4x^2 + kx + 4$; $[2]^3 + 4[2]^2 + k[2] + 4 = 0$; 8+16+4+2k=0; 2k+28=0, therefore, $k=\frac{-28}{2}=-14$.

QUESTION NO: 10

Choose the correct option.

A pentagon has 3 of its angles equal if the size of the fifth angle is 90°. Find the size of each of the three equal angles.

- A. 180°
- B. 150°
- C. 135°
- D. 90°

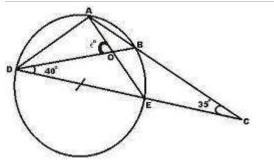
The correct answer is option [C]. Solution: Hint [A pentagon has 5 sides]. $[2n - 4] '90^{\circ}$, xeera.ng here n = 5.

Then let the number of each of the angle be y ® 3 have equal angles = 3y and the fourth angle is 180 - y.

Therefore, 3y + 180 - y + 90 = [2(5) - 4]' 90; 2y + 270 = 540, then $y = \frac{540 - 270}{2} = 135^{\circ}$.

QUESTION NO: 11

Choose the correct option.



Obtain the value of c in the figure drawn.

- A. 135°
- B. 115°

C. 65°

O D. 75°

The correct answer is option [B].

Solution: $DDBA = 75^{\circ}$ [sum of interior

angles]; $\Phi EDB = \Phi EAB = 40^{\circ}$ [angles at the

circumference are equal]; $\triangle AOB = 180 - [75 + 40] = 180 - 115 =$

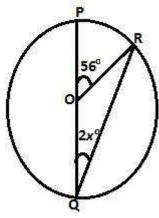
65°; Θ DEA = Θ DBA = 75° [angles at the circumference are equal];

 $DDOE = 180 - [75 + 40] = 65^{\circ}; DCEA = 180$

$$-75 = 105^{\circ}$$
; $DDOE = 360 - [105 + 105 + 35]$

QUESTION NO: 12

Use the diagram to answer the question.



In the diagram, *O* is the centre of the circle. Find the value of *x*.

A. 34

B. 31

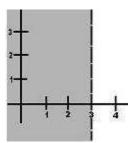
C. 17

D. 14

The correct answer is option [D].

QUESTION NO: 13

Choose the correct option.



From the given diagram drawn, what is the inequality equation?

 \bullet A. x > -3

B. x³3

C. x > 3

D. x 3 -3

The correct answer is option [C]. Solution:

The broken lines = < or > while the

unbroken lines = \leq or ³

The unshaded portion is the required region.

QUESTION NO: 14

Choose the correct option.

 $\textbf{xeera.n} \\ \textbf{g} \\ \textbf{ctorise} \\ \textbf{a}^2 - \textbf{b}^2 + \textbf{ap - bq + bq + aq}.$

 \circ A. (a - b)(a - b + p - q)

 \circ B. (a + b)(a - b + p - q)

 \circ C. (b + p)(a - b + p - q)

 \circ D. (p-q)(a-b+p-q)

The correct answer is option [B]

Grouping;

 $(a^2 - b^2) + ap - aq + bp - bq$

 $= (a^2 - b^2) + (ap - aq) + (bp - bq)$

= (a + b)(a - b) + a(p - q) + b(p - q)

Finding the common factor;

= (a + b)[(a - b) + (p - q)]

= (a + b)(a - b + p - q)

QUESTION NO: 15

Choose the correct option.

In an election there were four candidates, ${}^5\pi_6$ of the electors voted for the winner. The runner-up received ${}^4\pi_7$ of the remaining votes. The third candidates received twice the votes of the fourth

candidates. What fraction of the electors voted for the third candidate?

A. ¹¤₄₂

B. ¹m₂₁

C. 1¤14

D. 41 m₄₂

The correct answer is option [B]. Solution: Let the fraction of the fourth candidate be x

$$\frac{5}{6} + (\frac{1}{6} \cdot \frac{4}{7}) + 2x + x = 1$$

$$70 + 8 + 168x + 84x = 84$$

252x = 6

 $X = 6/_{252} = 1/_{42}$

The fraction of the third candidate is twice the fourth = 1/21.

QUESTION NO: 16

Choose the correct option.

A straight line makes an angle of 30° (with the positive x-axis and cuts the y-axis at y = 5. Find the equation of the straight line.

A. y-dx+5

O B. 9-2+5

C. Jun-1-1-15

D. 53-1+56

The correct answer is option [D].

Slope $M = \tan\theta \Rightarrow M = \tan 30^\circ = \frac{1}{\sqrt{6}}$

The equation of a straight line is given as y = mx + cWhere m is the slope of the line, and c is the intercept on the y-axis. $\Rightarrow y = \frac{1}{15}x + 5 = \sqrt{3}y = x + 5\sqrt{3}$

QUESTION NO: 17

Choose the correct option.

The difference between the length and width of a rectangle is 6 cm and the area is 135 cm². What is the length?

A. 25cm

B. 18cm

C. 15cm

D. 24cm

The correct answer is option [C]. Area of rectangle = length x width, But

length - width = 6 (length = 6 + width)

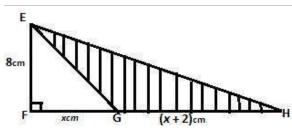
(Area = 135 = (6 + width) x width, Let

length = 1 and width = w

 $135 = 6w + w^2$;

QUESTION NO: 18

Use the diagram to answer the question



In the diagram, /EF/ = 8cm, /FG/ = xcm, /GH/ = (x + 2)cm, Θ EFG = 90°. If the area of the shaded portion is 40 cm², find the area of Δ EFG.

A. 128cm²

B. 72cm²

C. 64cm²

D. 32cm²

xeera.nghe correct answer is option [D].

QUESTION NO: 19

Choose the correct option.

A measuring cylinder of radius 3.5cm contains water to a height of 56cm. If this water is poured into a similar cylinder of radius 14cm, what will be the height of the water column?

A. 3.5cm

B. 14cm

C. 1.75cm

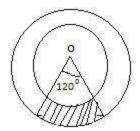
D. 5.3cm

The correct answer is option [A]. Solution: Volume of cylinder = $p ' r^2 ' H = p ' R^2 h$, where r = 3.5cm, H = 56cm, R = 14cm, h = 2

 $h = \frac{9^{\circ}3.52^{\circ}56}{\frac{1}{9^{\circ}14^2}} = 3.5$ cm.

QUESTION NO: 20

Use the diagram to answer the question.



In the diagram O is the centre of two concentric circles of radius 11cm and 14cm. Calculate the area of the shaded part of the sector with an angle, of 120° at the centre.

- A. 205.33cm²
- B. 126.76cm²
- C. 78.57cm
- D. 35.62cm²

The correct answer is option [C].

QUESTION NO: 21

Choose the correct option.

Find the values of x for which the functiom $y = \frac{2x + 4}{x^2 - 5x + 6}$ is undefined

- A. [3 or 2]
- B. [-3 or -1]
- C. [-3 or 2]
- D. [-2 or 3]

The correct answer is option [A].

Solution: Hint [Factorise the denominator]; $x^2 - 5x + 6$; x[x - 2] - 3[x - 2]; [x - 3][x - 2]. Therefore, x = 3 or x = 2x = 3 or x = 2.

QUESTION NO: 22

Choose the correct option.

Calculate the interest paid on a fixed deposit of ₦ 48,000, which was invested for a period of 7 years at an annual compound interest rate of 14%.

- O A. ₩ 82,480.12
- B. ₦ 77,841.21
- C. ₩ 72,108.90
- D. ₦ 92,180.31

The correct answer is option [C]. Solution:

 $A = Amount = P[1 + \frac{1}{100}]^n$,

where $P = Principal = \mathbb{N}48,000$, Rate = r = 14%, Time = n = 7 years.

 $A = \frac{1}{1}48,000[1 + \frac{1}{100}]^7 = \frac{1}{1}48,000[1.14]^7 = \frac{1}{1}120,108.902.$

Interest = I = A - P = 120,108.902

 $N48,000.000 = N72,108.902 \gg N72,108.90$.

QUESTION NO: 23

Choose the correct option.

Two cars X and Y start at the same point and travel towards a point P which is 120 km away. If the average speed of Y is 60km per hour and X arrives at P 30 minutes earlier than Y. What is the average speed of X?

- A. 48km/hr
- B. 80km/hr
- C. 84km/hr
- D. 40km/hr

The correct answer is option [B]. Solution:

Average $Speed = \frac{Distance}{Time}$

xeera.ngar Y's Time = Distance/Average Speed

where Distance = 120km, Time = ?,

Average Speed = 60 km/hr

then Car Y's time = $\frac{120}{60}$ = 2hrs

Car X arrives 30 minutes earlier than car Y

this $\frac{30}{60} = \frac{1}{2}$ in hour

Car X's Time = $2 - \frac{1}{2} = \frac{1}{2}$

Therefore, car X's average speed

 $= \frac{120}{11} = \frac{120}{11} = 80 \text{km/hr}.$

QUESTION NO: 24

Choose the correct option.

Evaluate $[x_3 + x - 3]/[3x + x - 4]$, when x = -3.

- A. -33/20
- B. ²⁶/₃₃
- C. -33/26
- D. 23/43

The correct answer is option [A]. Solution: Hint [Substitute the value of x into the equation directly].

QUESTION NO: 25

Choose the correct option.

Find the value of the equation $[25xz]/_{64} + \frac{35x}{_{25}} - \frac{[16x3]}{_{9}}$, given that $x = \frac{1}{_{2}}$.

- A. 6629/11520
- B. 2597/5760
- C. 2597/11520
- D. 1869/5760

The correct answer is option [A]. Solution: Put the value of x directly into the equation and solve.

QUESTION NO: 26

Choose the correct option.

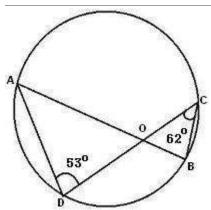
Evaluate 85.476² - 69.935² and leave your answer correct to 3 s.f.

- A. 241
- O B. 242
- C. 243
- D. 240

The correct answer is option [B]. Solution: $85.476^2 - 69.935^2 = [85.476 - 69.935][85.476 + 69.935] = [15.541][155.411] = 2415.42 \approx 242.$

QUESTION NO: 28

Choose the correct option.



The diagram drawn, $\Phi DCB = 62^{\circ}$ and $\Phi ADC = 53^{\circ}$. Find ΦCOB .

- A. 65°.
- © B. 53°.
- C. 115°.
- D. 128°.

The correct answer is option [A]. Solution:

DCBO = DADC = 53 [Angle at the

circumference is equal]

DCOB = 180 - [62 + 53] = 180 - 115 = 65°.

QUESTION NO: 29

Choose the correct option.

The examination marks of 50 students are as follows: 65, 58, 51, 36, 23, 40, 53, 59, 70, 51, 46, 59, 50, 67, 46,39, 61, 62, 73, 60, 71, 51, 47, 32, 48, 40, 40, 51, 58, 67, 60, 69, 43, 52, 37, 26, 38, 50, 59, 40, 44, 54, 42, 47, 68, 74, 45, 39, 48, 55. Calculate the mean deviation.

- A. 50.7.
- O B. 1.8.
- C. 35.31.

eera.na D. 10.59.

The correct answer is option [D]

CLASS INTER VAL	HID-	PREQU ENCY P	fx'	x - n	n - 'x	f x - m
21-30	25.5	2	51	-25.2	25.2	50.4
31-40	35.5	10	365	-15.2	15.2	152
41-50	45.5	12	546	-5.2	5.2	62.4
51-60	55.5	15	832.5	4.8	4.8	72
61-70	65.5	8	524	14.8	14.8	118.4
71-80	75.5	3	226.5	24.8	24.8	74.4

Solution: The mean of the distribution $X = \frac{fx}{5f} = \frac{2535}{60} = 50.7$

The mean deviation: $\frac{\sum f |x' - n|}{\sum f} = \frac{523.6}{50} = 10.592$ 10.59

QUESTION NO: 30

Choose the correct option.

Ofure drives for 6 hours at a certain speed, she then triples her speed and drove for another 5 hours. Altogether she covered 1470 kilometres. At what speed did she drive for the last 5 hours?

A. 140km/hr

B. 1470/11km/hr **C.** 70km/hr D. 280km/hr The correct answer is option [C]. Solution: Let the speed be x. The total distance covered is = 1470 km; $6x + 3[5x] = 1470 \otimes 6x + 15x =$ 1470 ® 21x = 1470, therefore, $x = \frac{1470}{21} =$ 70km/hr. **QUESTION NO: 31** Choose the correct option. Tolu bought a piece of land for ₩150,000.00 and later sold it for ₩500,000.00. what is the percentage gain correct to 3 significant figures? 0 A. 333.33% B. 333.00% **C.** 233.33% D. 233.00% The correct answer is option [C]. **QUESTION NO: 32** Choose the correct option. A sales girl gets a commission of 8% of the value of the things she sells. Find her commission for selling 3 keyboards at ₦25,000.00 each and 5 calculators at ₦600.00 each. A. ₦2,048.00 B. ₦3,200.00 C. ₦5,740.00 D. ₩6,240.00 The correct answer is option [D]. **QUESTION NO: 33** Choose the correct option.

The correct answer is option [B]. $t^2 = \sqrt{[(1/f) + (1/g)]} = \sqrt{[(f+g)/f_g]} = \sqrt{g}/(g+f)$ $t^2(g+f) = vfg$ $gt^2 + ft^2 = vfg$ $gt^2 = vfg - ft^2$ $gt^2 = f(gv - t^2)$ $f = gt^2/(gv - t^2)$

QUESTION NO: 34

C. 🛪 🛪

Choose the correct option.

The size of a quantity first doubles then increases by a further 16%. After a short time, it's size decreases by 16%. What is the net increase in size of the quantity?

A. ⁵⁹³⁰⁰¤₆₂₅%
 B. ⁵⁰⁹⁰⁰¤₆₂₅%
 C. 200%
 D. 100%

xeera.ngThe correct answer is option [C]. Initial quantity = X

After doubling, quantity = 2XIncrement by 16% = 2X + 0.16XAfter a short period, decrement = (2X + 0.16X - 0.16X)% = (2X)% Net increment in size of the quantity = $(2X)\% = (2 \times 100\%) = 200\%$

QUESTION NO: 35

Choose the correct option.

Correct 0.002473 to 3 significant figures.

A. 0.002B. 0.0024C. 0.00247D. 0.0025

The correct answer is option [C].

QUESTION NO: 36

Choose the correct option.

Add 345₅ and 543₅ in base 6.

A. 8 -12

 \bigcirc B. $\frac{g^3}{g^2-l^2}$

O A. 12736

B. 4235₆

C. 1012₆

D. 1052₆

The correct answer is option [D]. Solution: Hint [Convert to base 10 first]

$$345 = [3 \times 5^{2}] + [4 \times 5^{1}] + [5 \times 5^{0}] = 5$$

$$75 + 20 + 5 = 100$$

$$543 = [5 \times 5^{2}] + [4 \times 5^{1}] + [3 \times 5^{0}] = 5$$

$$125 + 20 + 3 = 148$$

$$100 + 148 = 248$$

$$10 = 10$$

6	248
6	41 R 2
6	6 R 5
6	1 R 0
	0 R 1

Answer = 1052

OUESTION NO: 37

Choose the correct answer.

The length of a pole is measured as 5m to the nearest meter. What is the range of its actual length? Calculate the percentage error.

A. ± 15%

B. ± 25%

C. ± 12%

D. ± 10%

The correct answer is option [D]

Since the measurement is given to the nearest meter, the actual length of the pole will be between 4.5m and 5.5m.

Absolute error = + 0.5m

QUESTION NO: 38

Choose the correct option.

Calculate the probability of obtaining a score of 6 when two dice are thrown.

A. 5/36

○ B. ⁶/₁₁

C. 11/35

D. 35/36

The correct answer is option [A]. Solution: Hint [Total outcome of two dice thrown = 36]. P[total score of 6] = [1,5], [2,4], [3,3], [4,2], $[5,1] = \frac{5}{36}$.

QUESTION NO: 39

Choose the correct option.

A rectangular piece of cardboard measures 17cm by 14cm. Strips of equal width are cut off one side and one end. The area of the remaining piece is 108cm². Find the width of the strips removed.

A. 26cm

B. 17cm

xeera.ng C. 5cm

D. 17cm

The correct answer is option [C]. Solution:

Let the width of the strip be y;

[17 - y][14 - y] = 108

 $238 - 31y + y^2 = 108;$

 $y^2 - 31y + 130 = 0$

 $y^2 - 26y - 5y + 130 = 0;$

y[y - 26] - 5[y - 26] = 0;

The width of the strip removed is 5cm.

OUESTION NO: 40

Choose the correct option.

Find two consecutive numbers whose product is 156.

A. 17,18

O B. 8,9

C. 27,28

O D. 12,13

The correct answer is option [D]. Solution:

Let the number be x;

$$[x + 2][x + 3] = 156$$

$$x^2 + 5x + 6 = 156$$
;

$$x^2 + 5x - 150 = 0$$

$$x^2 + 15x - 10x - 150 = 0$$
;

$$x[x + 15] - 10[x + 15] = 0[x + 15][x - 10]$$

therefore,
$$x = 10$$
 or -15

The number is 10

then the consecutive numbers is 12,13.

QUESTION NO: 41

Choose the correct option.

Given that U = [3, 4, 5, 6, 7, 8]; A = [6, 7, 8], B = [3, 5, 6] and C = [5, 6, 7]. From the information given, find [AÈB]'ÈC.

- A. [3, 5, 6, 7]
- B. [3, 4, 6, 7]
- C. [4, 5, 6, 7]
- D. [4, 5, 6, 8]

The correct answer is option [C]. Solution: [$A \ge B$]' = [4] since A = [6, 7, 8] and B = [3, 5, 6], then $A \ge B$ = [3, 5, 6, 7, 8] from U = [3, 4, 5, 6, 7, 8]. C = [5, 6, 7]. Therefore**xeera.r** [$A \ge B$]'E = [4, 5, 6, 7].

QUESTION NO: 42

Choose the correct option.

U = [25, 26, 27, 28,, 50], D = [x : x £ 42], and E = [x : x prime number]. Find DÇE.

- A. [29, 31, 37, 41]
- B. [29, 30, 31, 41]
- C. [29, 31, 32, 41]
- D. [29, 33, 37, 41]

The correct answer is option [A]. Solution: D = [25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,

QUESTION NO: 42

Choose the correct option.

U = [25, 26, 27, 28,, 50], D = [x : x £ 42], and E = [x : x prime number]. Find DCE.

- A. [29, 31, 37, 41]
- B. [29, 30, 31, 41]

- C. [29, 31, 32, 41]
- D. [29, 33, 37, 41]

The correct answer is option [A]. Solution: D = [25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42] and <math>E = [29, 31, 37, 41]. Therefore, DCE = [29, 31, 37, 41].

QUESTION NO: 43

Choose the correct option.

Two dice are thrown at the same time. What is the probability that the total shown on them will be 7?

- A. 3/5
- B. ⁴/₇
- C. ²/₃
- D. 1/6

The correct answer is option [D].

	-	1	V			v —
	1	2	3	4	5	6
1	1,1	1,2	1,3	1,4	1,5	1,6
2	2,1	2,2	2,3	2,4	2,5	2.6
3	3,1	3,2	3,3	3,4	3,5	3,6
4	4.1	4.2	4,3	4.4	4,5	4,6
5	5,1	5,2	5,3	5,4	5,5	5,6
6	6,1	6,2	6,3	6,4	6,5	6,6

P[Total thrown is 7] = [1.6], [2.5], [3.4], [4.3], [5.2], [6.1]:
Probability = [Number of Outcome of Event]

[Total number of outcome of event]

P[Total thrown is 7] = 6/36 = 1/6.

QUESTION NO: 44

Choose the correct option.

Item	Quantity Remaining
À	115
В	202
С	88
D	65
Е	74
F	46
	8

An accountant cross checked his stock of six items and tabulated it as shown, find the percentage of item E.

- A. 14.5%
- B. 11.5%
- C. 12.5%
- D. 18.5%

The correct answer is option [C]. Solution:

Percentage of item $E = \frac{\text{quantity of item E}}{\text{total quantity of}}$

$$_{\text{items}}$$
 $100 = \frac{74}{590}$ $100 = 12.5\%$.

QUESTION NO: 45

Choose the correct option.

x	3	4	7	9
f	6	z	5	4
fx	18	4z	35	36

From the frequency table drawn, the mean 5.5. Find the value of z.

- A. 2.65
- O B. 3.64
- C. 4.33
- D. 3.33

The correct answer is option [C]. Solution:

Mean = 5.5;
$$5.5/_1 = \frac{[18+4z+35+36]}{[6+z+5+4]}$$
 ® $5.5/_1$

$$=\frac{89+4z}{15+2}$$
 ® $5.5[15+z] = 89 + 4z$; $82.5 + 5.5z$
= $89 + 4z$

5.5z - 4z = 89 - 82.5 ® 1.5z = 6.5, therefore, $z = \frac{65}{1.5} = 4.33$.

QUESTION NO: 46

Choose the correct answer.

Evaluate Ö32 + 3Ö8.

- A. 4Ö2
- B. 10Ö2
- C. 2Ö8
- D. 5Ö6

The correct answer is option [B]

$$=3\sqrt{4\times2}+\sqrt{16\times2}$$

$$= (\sqrt{16} \times \sqrt{2}) + (3 \times \sqrt{4} \times \sqrt{2})$$

$$=4\sqrt{2}+3\times2\sqrt{2}$$

= 10 V 2

QUESTION NO: 47

Choose the correct answer.

Simplify Ö45 ´Ö28.

- A. 4Ö7
- B. 3Ö15
- C. 5Ö7
- D. 6Ö35

The correct answer is option [D]

$$= \sqrt{9 \times 5} \times \sqrt{4 \times 7}$$

xeera.ng= 3 1 x 2 1 7

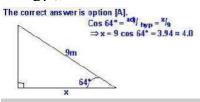
= 6 V35

QUESTION NO: 48

Choose the correct option.

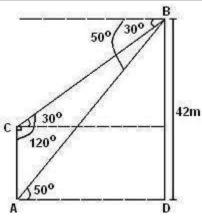
A ladder 9m long leans against a vertical wall, making an angle of 64° with the horizontal ground. Calculate, correct to one decimal place, how far the foot of the ladder is from the wall.

- A. 4.0m
- B. 5.8m
- C. 7.1m
- D. 8.1m



QUESTION NO: 49

Choose the correct option.



The top of a building 42m high is observed from the top and from the bottom of a vertical tree. The angles of depression are found to be 30° and 50° respectively. Find the height of the tree.

- A. 54.83m
- B. 65.34m
- C. 25.80m
- D. 21.65m

The correct answer is option [D]. Solution: xeera.ng

$$sin~50^{\circ}={}^{\scriptscriptstyle 42}\!/_{\scriptscriptstyle AB};~AB={}^{\scriptscriptstyle 42}\!/_{\scriptscriptstyle sin~50^{\circ}}=54.83m;~{}^{\scriptscriptstyle CA}\!/_{\scriptscriptstyle sin}$$

$$_{20^{\circ}}$$
= $_{54.83}/_{\sin 120^{\circ}}$; CA = $_{54.83}$ $_{\sin 20_{\circ}}/_{\sin 120^{\circ}}$ = 21.65m.

QUESTION NO: 50

Choose the correct option.

If (x + 3) varies directly as y and x = 3 when y = 12, what is the value of x when y = 8?

- A. 1
- B. ¹¤₂
- C. -¹¤₂
- O D. -1

The correct answer is option [A]

QUESTION NO: 51

Choose the correct option.

If h(m + n) = m(h + r) find h in terms of m, n and r.

$$A. h = \frac{mr}{2m + r}$$

$$\begin{array}{c} C. h = \frac{m+n}{m} \\ D. h = \frac{m}{n} \end{array}$$

The correct answer is option [D].

h(m+n) = m(h+r)

h(m + n) = mh + mr. Taking like terms

gives; h(m + n) - mh = mr

h(m + n - m) = mr => h = (mr)/n

QUESTION NO: 52

Choose the correct option.

A student travelled for x hours at 5km/hr and for y hours at 10km/hr. The journey was 35km altogether, find x and y if the average speed for the journey was 7 km/hr.

0 A. 3hrs

3hrs

0 B. 3hrs

2hrs

C. 1hrs

D. 2hrs

The correct answer is option [B]. Solution:

Let the number of hours be x and y ® time for the journey = Distance/Average speed

 $= \frac{35}{7}$ hours; x + y = 5 ----- [i]; 5x + 10y = 35 -

--- [ii] ® make x subject from equation

[i]; x = 5 - y - [iii] ® substitute into equation [ii]; 5[5 - y] + 10y = 35;

25 - 5y + 10y = 35 ® 5y = 10; $y = \frac{10}{5} = 2hrs$ substitute the value of y into equation

[iii] ® x = 5 - y = 5 - 2 = 3hrs. The answer = 3hrs

2hrs.

QUESTION NO: 53

Choose the correct option.

Solve the equation $7y^2 = 3y$.

$$\bullet$$
 A. y = 3 or 7

- \bullet B. y = 0 or 7
- \circ C. $y = 0 \text{ or } ^3/_7$
- \bigcirc D. y = 0 or 9

The correct answer is option [C].

$$7y^2 - 3y = 0 \Rightarrow y(7y - 3) = 0$$

$$=> y = 0 \text{ or } 3/7$$

QUESTION NO: 54

Choose the correct option.

Seven books and eight pens cost ₦ 1750. Eight books and seven pens cost ₦ 1700. Calculate the cost of a book and a pen.

- A. ₦ 210; ₦ 90
- O B. ₦ 140; ₦ 80
- C. ₦ 210; ₦ 80
- D. ₦ 140; ₦ 90

The correct answer is option [D]. Solution: Let the cost of a book be n and the cost of a pen be m; $7n + 8m = \frac{1}{2} 1750$ ----- [i]; $8n + \frac{1}{2} 1750$

 $7m = \mathbb{N} 1700$ ----- [ii] ® Multiply equation [i] by 8 and equation [ii] by

7 ® $56n + 64m = \mathbb{N} 14,000 - [iii]; 56n +$

 $49m = \mathbb{N} \ 11,900 - [iv]$ ® subtract

equation [iv] from [iii]; $15m = \mathbb{N}$

2100 ® $m = \frac{12100}{15} = \frac{140}{15}$ 140. Substitute the value of m into equation [ii] and solve for n;

8n + 7[140] = 1700 ® 8n = 1700 - 980;

N 140; N 90

QUESTION NO: 55

Choose the correct option.

Simplify $36^{\frac{1}{2}}x64^{-\frac{1}{2}}x5^{\circ}$.

- A. 0
- B. 1/24
- C. 2/3
- D. 1½

The correct answer is option [D].

 $36^{\frac{1}{2}} = \sqrt{36} = 6$

$$64^{-\frac{1}{3}} = \frac{1}{\sqrt[3]{64}} = \frac{1}{4}$$

$$5^{0} = 1$$

$$\Rightarrow 36^{\frac{1}{2}} \times 64^{-\frac{1}{2}} \times 5^{0}$$

$$= 6x \frac{1}{4} \times 1 = 1 \frac{1}{2}$$

QUESTION NO: 56

Use the table to answer the question.

×	0	2	4	6
γ	1	2	3	4

The table is for the relation y = mx + c where m and c are constants. What is the value of xwhen y = 5?

- O A. 8
- O B. 9
- C. 10
- O D. 11

xeera. note the correct answer is option [A].

QUESTION NO: 57

Choose the correct option.

Find the sum to infinity of G.P. whose first term is 24.75 and common ratio is 0.75.

- A. 99
- B. 49
- C. 68
- D. 88

The correct answer is option [A]. Solution: Using the equation $S_{\nu} = \sqrt[a]{r_{1-r_0}}$, where a = 24.75, r = 0.75.

CHEMISTRY-

QUESTION NO: 1	D. None of the above.
Choose the correct option.	The correct answer is option [A].
A - 1 - 1 - 1 - 1 - 1	QUESTION NO: 5
Acid anhydride is the same as	Choose the correct option.
C A. dry acid.	X
B. acid that increase its volume when exposed	In the atomic notation ^x _y A,
to air.	A. x is the atomic number of the element.
C. acid made by drying the reactants first.	O B. y is the atomic number of the element.
D. acid made from oxides of non-metals.	\circ C. x is the number of protons in the element.
The correct answer is option [D].	D. x is the number of electrons in the element.
QUESTION NO: 2 Choose the correct option.	The correct answer is option [B].
Choose the correct option.	QUESTION NO: 6
Which of the pollutants causes acid rain?	Choose the correct option.
A. oxides of carbon and oxides of sulphur. B. oxides of sulphur.	Which of the following elements has the highest electronegativity?
C. oxides of nitrogen and oxides of carbon.	A. Chlorine.
D. oxides of nitrogen and oxides of sulphur.	B. Fluorine.
The correct answer is option [D].	C. Nitrogen.
QUESTION NO: 3 Xeera	D. Oxygen.
Choose the correct option.	The correct answer is option [A].
The following statements explains	QUESTION NO: 7
burning except	Choose the correct option.
A. burning is a oxidation process.B. burning must involve iron.	The number of times the average mass of one atom of that element is heavier than one-twelfth the mass of one atom of carbon-12 is known as
C. burning gives out large amount of heat.	<u> </u>
D. burning is an active rapid process.	A. relative molecular weight.
The correct answer is option [B].	B. relative atomic weight.
QUESTION NO: 4	C. relative molecular mass.
Choose the correct option.	D. relative atomic mass.
When the energy needed to break up bonds is less	The correct answer is option [D].
than energy liberated on hydration of ions in an ionic	QUESTION NO: 8
compound, the compound is	Choose the correct answer.
C A. Soluble.	The ion that is isoelectronic (same number of
C B. Insoluble.	electrons) with CO is
C. Hydrated.	O A. CN

CHEMISTRY-

O B. O ²⁺	is observed when emitted light passes through a material that partially absorbs it before it is
C. O ²⁻ D. N ²⁺	dispersed.
The correct answer is option [A].	A. Adsorption spectra
Isoelectronic means same number of	C B. Emission spectra
electrons	C. Absorption spectra
QUESTION NO: 9	
Choose the correct answer.	D, memorie special
and a section to the desired and a second in	The correct answer is option [C] QUESTION NO: 13
and are the types of bonds present in CuSO ₄ .5H ₂ O.	Choose the correct option.
A. electrovalent and covalent	The following are heavy chemicals except
B. electrovalent and coordinate covalent	A. tetraoxosulphate (vi) acid
C. electrovalent, covalent and coordinate	O B. dyes
covalent	C. sodium trioxocarbonate (iv)
D. covalent and coordinate covalent	
The correct answer is option [B]	D. ethene
QUESTION NO: 10	The correct answer is option [B].
Choose the correct answer.	QUESTION NO: 14 Choose the correct answer.
The bonds present in N₂O₅ are Xeera	
	White lead is a pigment with formula
A. only ionic	A. PbCO₃
B. covalent and coordinate	
C. only covalent	© B. Pb(OH)₂
O. covalent and ionic	C. Pb(OH)2.2PbCO3
The correct answer is option [B]	
QUESTION NO: 11	The correct answer is option [C]
Choose the correct answer.	QUESTION NO: 15
The solar atmosphere is composed of a lower layer	Choose the correct answer.
called and higher layer called	The hydrophobic part of detergent molecule is
A. chromosphere, photosphere	A. water attracting
A. chromosphere, photosphereB. corona, chromosphere	A. water attractingB. water repelling
B. corona, chromosphere	© B. water repelling
B. corona, chromosphere C. chromosphere, corona	B. water repellingC. both A & B
 B. corona, chromosphere C. chromosphere, corona D. photosphere, corona The correct answer is option [C] QUESTION NO: 12 	 B. water repelling C. both A & B D. none of the above The correct answer is option [B] QUESTION NO: 17
 B. corona, chromosphere C. chromosphere, corona D. photosphere, corona The correct answer is option [C] 	 B. water repelling C. both A & B D. none of the above The correct answer is option [B]

What quantity of electricity is consumed when 15	○ D. is a rocket fuel.
amperes was consumed in 1½,hrs during electrolysis?	The correct answer is option [B].
0 4 675 4 4	QUESTION NO: 21
A. 67.5 coulomb.	Choose the correct option.
B. 675 coulomb.	
C. 67.5 kilocoulomb.	Which of the following fractions of crude oil is likely to contain the hydrocarbon $C_{12}H_{26}$?
D. 6750 coulomb.	,
The correct answer is option [C].	A. Kerosene.
Solution: $Q = It$, where $I = 15A$, $t = 1\frac{1}{4}hrs$ is	С В. Naptha.
equivalent to 75 mins; Q = 15 x 75 x 60 =	C. Gas oil.
67 500 coulomb = 67.5 kilocoulomb.	
QUESTION NO: 18	D. Fuel oil.
Choose the correct option.	The correct answer is option [A]. Kerosine contains C_{10} - C_{16} carbon atoms per
The integral or over 11 of a chamical system is according	molecule.
The internal energy, U, of a chemical system is equal to the sum of	QUESTION NO: 22
	Choose the correct option.
A. chemical energy and bond energy.	Which of the following substances decomposes when
B. hydration energy and bond energy.	Which of the following substances decomposes when an electric current is passed through it?
C. hydration energy and lattice energy.	A. Glucose solution.
D. lattice energy and bond energy.	a.ng B, Zinc rod.
The correct answer is option [A].	C. Hydrochloric acid.
QUESTION NO: 19	
Choose the correct option.	D. Tetrachloromethane.
Which of the following decreases in a system when	The correct answer is option [C].
vapour condenses to a liquid?	QUESTION NO: 23
	Choose the correct option.
A. Activation energy.	Which of the following options is the correct order by
C B. Enthalpy.	which metals displace hydrogen when reacting with
C. Entropy.	which metals displace hydrogen when reacting with acid?
C. Entropy.D. Number of moleculesThe correct answer is option [C].	acid? $A. Na > Ca > Mg > Zn.$
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn.
C. Entropy.D. Number of moleculesThe correct answer is option [C].	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn.
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20 Choose the correct option.	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn. D. Na > Ca < Mg > Zn.
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn. D. Na > Ca < Mg > Zn. The correct answer is option [A].
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20 Choose the correct option. Hydrogen is used in oxy-hydrogen flames for melting	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn. D. Na > Ca < Mg > Zn. The correct answer is option [A]. QUESTION NO: 24
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20 Choose the correct option. Hydrogen is used in oxy-hydrogen flames for melting	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn. D. Na > Ca < Mg > Zn. The correct answer is option [A].
C. Entropy. D. Number of molecules The correct answer is option [C]. QUESTION NO: 20 Choose the correct option. Hydrogen is used in oxy-hydrogen flames for melting metals because it	acid? A. Na > Ca > Mg > Zn. B. Na < Ca < Mg < Zn. C. Na < Ca > Mg < Zn. D. Na > Ca < Mg > Zn. The correct answer is option [A]. QUESTION NO: 24

[ii] the nature of the liquid	The correct answer is option [D].
[iii] the type of liquid	QUESTION NO: 28
A. [i] and [iii] only.	Choose the correct option.
B. [i] only.	Which of the following statements is not true?
C. [i] and [ii] only.	A. Carbon exhibits allotropy
O D. [i], [ii] and [iii]	© B. Sulphur exhibits allotropy
The correct answer is option [C].	C. Chlorine exhibits allotropy
QUESTION NO: 25	
Choose the correct option.	D. Nitrogen is a gas
Valuin temperature can be converted into calcius	The correct answer is option [C].
Kelvin temperature can be converted into celsius temperature by	QUESTION NO: 30
	Choose the correct option.
$^{\circ}$ A. $^{\circ}$ C = K - 273.	Aromatic and aliphatic hydrocarbons can be
\circ B. \circ C = K + 273.	distinguished from each other by
© C. °C + 273/κ.	A. action of bromine.
© D. K+273/6C	B. use of polymerization reaction.
The correct answer is option [A]. Solution: $K = {}^{\circ}C + 273$, therefore, ${}^{\circ}C = K - 273$.	C. action of heat.
Solution. N = G · 275, therefore, G = N 275.	D. use of oxidation reaction.
OUESTION NO. 25	
QUESTION NO: 26	keela. Inghe correct answer is option [C].
Choose the correct option.	QUESTION NO: 31
Choose the correct option.	
Choose the correct option. The main function of limestone in the blast furnace is	QUESTION NO: 31 Choose the correct option.
Choose the correct option.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol
Choose the correct option. The main function of limestone in the blast furnace is	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution?
Choose the correct option. The main function of limestone in the blast furnace is to	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution?
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO ₄ solution? $A. CH_2 = CH_2.$
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. CH₂ = CH₂. B. CH₃COOH.
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. CH₂ = CH₂. B. CH₃COOH. C. CH₃-CH₃.
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C].	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. CH₂ = CH₂. B. CH₃COOH. C. CH₃-CH₃. D. CH₃-OCH₃.
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C]. QUESTION NO: 27 Choose the correct option.	 QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. CH₂ = CH₂. B. CH₃COOH. C. CH₃-CH₃. D. CH₃-OCH₃. The correct answer is option [B].
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Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C]. QUESTION NO: 27 Choose the correct option. To test if a chemical compound contains hydrazine	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. CH₂ = CH₂. B. CH₃COOH. C. CH₃-CH₃. D. CH₃-OCH₃. The correct answer is option [B]. QUESTION NO: 32 Choose the correct option.
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C]. QUESTION NO: 27 Choose the correct option. To test if a chemical compound contains hydrazine is introduced and is formed on the glass.	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. $CH_2 = CH_2$. B. CH_3COOH . C. CH_3-CH_3 . D. CH_3-OCH_3 . The correct answer is option [B]. QUESTION NO: 32 Choose the correct option. $C_xH_y + 4O_2 \rightarrow 3CO_2 + 2H_2O$ The hydrocarbon C_xH_y in the reaction above is
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C]. QUESTION NO: 27 Choose the correct option. To test if a chemical compound contains hydrazine is introduced and is formed on the glass. A. silver trioxocarbonate (IV) and nothing	Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. $CH_2 = CH_2$. B. CH_3COOH . C. CH_3-CH_3 . D. CH_3-OCH_3 . The correct answer is option [B]. QUESTION NO: 32 Choose the correct option. $C_xH_y + 4O_2 \rightarrow 3CO_2 + 2H_2O$ The hydrocarbon C_xH_y in the reaction above is
Choose the correct option. The main function of limestone in the blast furnace is to A. act as a reducing agent. B. act as a catalyst. C. remove impurities. D. supply carbon (IV) oxide. The correct answer is option [C]. QUESTION NO: 27 Choose the correct option. To test if a chemical compound contains hydrazine is introduced and is formed on the glass. A. silver trioxocarbonate (IV) and nothing B. silver tetraoxosulphate (VI) and silver mirror	QUESTION NO: 31 Choose the correct option. What is the product of the reaction between ethanol and excess acidified KMnO₄ solution? A. $CH_2 = CH_2$. B. CH_3COOH . C. CH_3-CH_3 . D. CH_3-OCH_3 . The correct answer is option [B]. QUESTION NO: 32 Choose the correct option. $C_xH_y + 4O_2 \rightarrow 3CO_2 + 2H_2O$ The hydrocarbon C_xH_y in the reaction above is

C D. propyl.	discovered the method of arrangement of
The correct answer is option [A].	elements according to their atomic mass.
QUESTION NO: 33	
Choose the correct option.	C A. Mendeleev
	C B. Dalton
The elements in group 1 are called	C. Chadwick
A. alkali non-metals.	D. Niels Bohr
O B. alkali-earth metals.	The correct answer is option [A].
C. alkali metals.	QUESTION NO: 37
_	Choose the correct option.
D. acids.	$P_{4(s)} + 5O_{2(q)} \rightarrow$
The correct answer is option [C].	19 -19
QUESTION NO: 34 Choose the correct option.	The product of the given reaction above is
	<u> </u>
Elements in the same group may be said to belong to	\cap A. $P_4O_{8(g)}$.
	\mathbb{C} B. P_4O_{6g} .
<u> </u>	C. P4O 10(g).
A. a family.	O D. P4O12(g).
B. a group trend.	The correct answer is option [C].
C. a triad.	QUESTION NO: 38
© D. a period trend. xeera	. Ne hoose the correct option.
The correct answer is option [A].	The law is mitian temporature of white phaseborus is
QUESTION NO: 35	The low ignition temperature of white phosphorus is
Choose the correct option.	
The periodic law states that	○ A. 250°C.
	© B. 100°C.
A. the physical properties of the elements are a	C. 44°C.
Periodic Table of their atomic numbers.	© D. 35°C.
B. the physical and chemical properties of the	The correct answer is option [D].
elements are a Periodic Function of their atomic	QUESTION NO: 39
numbers.	Choose the correct option.
C. the physical and chemical properties of the	Lima sada alass is mada from the minture of
elements are a Periodic Table of their atomic numbers.	Lime soda glass is made from the mixture of
D. the physical and chemical properties of the elements are a Periodic Function of the relative atomic	A. silicon, washing soda and limestone.
mass.	B. metallic trioxosilicates (IV), silica and
The correct answer is option [B].	limestone.
QUESTION NO: 36	C. silica, caustic soda and limestone.
Choose the correct option.	D. silica, washing soda and limestone.
-	The correct answer is option [D].
	The correct answer is option [D].

QUESTION NO: 40 Choose the correct option.	A sample of orange juice is suspected to have been contaminated with a yellow dye. Which of the following	
	methods can be used to detect the dye?	
The mass of a radioactive element is 346 grams after 2 hours the mass is 246 grams find the decay constant?	A. Chromatography.	
	C B. Decantation.	
A. 0.5 hour.	C. Distillation.	
B. 0.171 hour.		
C. 0.117 hour.	C D. Evaporation.	
D, 2 hours.	The correct answer is option [A].	
The correct answer is option [B].	QUESTION NO: 44 Choose the correct option.	
Solution: Using the equation: $N = N_o e^{-\lambda t}$,	choose the correct option.	
where N = final mass = 246 grams, N_{\circ} =	The bonds in crystalline ammonium chloride are	
original mass = 346 grams, $t = time of decay$		
= 2 hours. Therefore decay constant $\lambda = \frac{1}{2}$	A. covalent and dative.	
$(246/_{346})/_2 = 0.171$ hour.	_	
QUESTION NO: 41	B. ionic and covalent.	
Choose the correct option.	C. ionic, covalent and dative.	
Data of chamical reaction depends on the following	 D. ionic, covalent and hydrogen bond. 	
Rate of chemical reaction depends on the following factors except	The correct answer is option [A].	
·	QUESTION NO: 45	
A. rate at which gas is evolved.	a.NGhoose the correct option.	
B. rate at which products are formed.	The valence shell of water molecule contains	
C. rate at which the colour of reactions change.	0	
D. rate at which the reactants diminish.	A. one lone pair and two unpaired electrons.	
The correct answer is option [C].	B. two lone pairs and two unpaired electrons.	
QUESTION NO: 42	 C. two lone pairs and a single unpaired 	
Choose the correct option.	electrons.	
"The rate of a reaction is proportional to the number of	 D. single lone pair and a single unpaired 	
effective collisions occurring per second between the	electrons.	
reactants."	The correct answer is option [B].	
This statement is associated with the	QUESTION NO: 46	
<u> </u>	Choose the correct option.	
A. kinetic theory.	The most suitable method used when separating an	
B. atomic theory.	insoluble solid from a liquid is	
C. collision theory.		
C D. gas laws.	C A. evaporation	
The correct answer is option [C].	C B. filtration.	
QUESTION NO: 43	C. magnetization.	
Choose the correct option.	D. sublimation	

	0. 1.
The correct answer is option [B].	Q = It Q = 1.0 x 965
QUESTION NO: 47	(1.0×965) C will liberate $1.0 \times 965 \times 63.5 / 96500 \times 2$
Choose the correct option.	61277.5/19300 = 0.318g
At a given temporative and pressure a gas A diffuses	QUESTION NO: 50
At a given temperature and pressure a gas, A, diffuses twice as fast as a gas, B. It follows that	Choose the correct option.
	In the reaction given below is an example of
(I) gas B is heavier than gas A.	$2SO_{2(g)} + O_{2(g)} \xrightarrow{V_2O_{5(s)}} 2SO_{3(g)}$
(II) gas B is four times as heavy as gas A.	
(III) gas B is monoatomic. (IV) gas A is diatomic.	A. homogeneous catalysis.
	C B. heterogeneous catalysis.
C A. 1&II.	C. inert catalysis.
○ B. III & IV.	D. contact catalysis.
C. I, II & III.	The correct answer is option [B].
O D. I, II, III & IV.	QUESTION NO: 1
The correct answer is option [A].	Choose the correct option.
QUESTION NO: 48	
Choose the correct option.	When a metallic oxide reacts with both acids and bases, the oxide is said to be
Which of the following pairs of elements would be expected to form an ionic compound when they combine?	A. acidic.
A. Sulphur and oxygen.	C. basic.
B. Phosphorus and oxygen.	D. complex.
	The correct answer is option [B].
C. Magnesium and aluminium.	QUESTION NO: 51
D. Magnesium and sulphur.	Choose the correct option.
The correct answer is option [D].	When a metallic oxide reacts with both acids and
QUESTION NO: 49	bases, the oxide is said to be
Choose the correct option.	buses, the oxide is said to be
What mass of copper would be deposited by a current	C A. acidic.
of 1.0 amperes passing for 965 seconds through copper	C B. amphoteric.
(II) tetraoxosulphate (VI) solution?	C. basic.
[Cu = 63.5, 1F = 96,500 C]	
C 4 0210 -	D. complex.
C A. 0.318 g.	The correct answer is option [B].
© B. 0.635 g.	QUESTION NO: 52 Choose the correct option.
C. 3.18 g.	
O D. 6.35 g.	The following substances are all normal salts with
The correct answer is option [A].	the exception of
$Cu^{2+} + 2e^{-} \rightarrow Cu$ 2F will liberate 63.5 g of Cu.	C A. Al(NO₃)₃.

- B. FeSO₄.
- C. Mg(OH)NO₃.
- D. NaCl.

The correct answer is option [C]

QUESTION NO: 53

Choose the correct option.

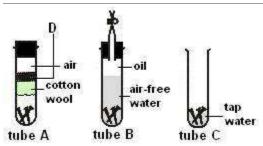
Which of the following is correct about the zones identified by a non-luminous flame?

- (i) the unburnt gas zone.
- (ii) the luminous zone.
- (iii) the outermost non-luminous zone.
- A. (iii) only.
- B. (i) and (iii).
- C. (ii) only.
- D. (i), (ii) and (iii).

The correct answer is option [D].

QUESTION NO: 54

Choose the correct option.



From the diagram drawn, tube B contains _____

- A. water alone.
- B. air alone.
- C. air and water.
- D. oil alone.

The correct answer is option [A]

QUESTION NO: 55

Choose the correct option.

How many moles of potassium is needed to balance the given equation below?

 $Fe[NO_3]_3(aq) + KSCN(aq) \rightarrow Fe[SCN]_3(aq) + KNO_3(aq)$

- A. 2.
- O B. 4.
- C. 1.
- D. 3.

The correct answer is option [D].

QUESTION NO: 56

Choose the correct option.

A substance containing as many elementary entities as the number of atoms in exactly 12 grams of carbon-12 is called

- A. mole.
- O B. molecule.
- C. atomic mass unit.
- D. avogadro's number.

The correct answer is option [A].

QUESTION NO: 57

Choose the correct option.

Which of the following statements is true?

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- A. H₂O has a greater dipole moment than H₂S.
- igcap B. H₂O is polar, but H₂S is non-polar.
- C. The molecules H₂S and H₂O are both linear.
- D. The molecules H₂S and H₂O both have zero dipole moment.

The correct answer is option [A].

QUESTION NO: 58

Choose the correct answer.

All molecules with polar bonds have dipole moment.

- A. False
- O B. True

The correct answer is option [A].

Symmetrical molecules will have zero dipole moment.

Also If symmetrical arrangement of atoms is there, there is no dipole moment. Example CCL.

QUESTION NO: 1

Choose the correct option

If a current of 17A pass through a coil such that the magnetic flux set up is 40Weber, determine the self inductance in the coil.

- A. 3.45 H
- O B. 1.73 H
- C. 2.35 H
- O D. 6.35 H

The correct answer is option [C].

I = 7A magnetic flux = 40wb

Let L = self inductance L = $\frac{9}{1} = \frac{40}{17} = 2.35 \text{ H}$

QUESTION NO: 2

Choose the correct option.

An electron moves with a speed of $2.0 \times 10^6 \text{ms}^{-1}$ in a straight line. Find the wavelength of the electron wave.

[mass of an electron = 9.1×10^{-31} kg, planck"s constant = 6.6×10^{-34} Js].

- A. 3.63 x 10⁻¹⁰m
- © B. 6.51 x 10⁻⁹m
- C. 4.24 x 10⁻⁸m
- D. 7.25 x 10⁻⁸m

The correct answer is option [A].

Using the equation:

$$\lambda = h/_{mv}$$

QUESTION NO: 3

Choose the correct option.

When an alternating current given by I = $10\sin(120\omega)$ t passes through a 12Ω resistor, the power dissipated in the resistor is _____.

- A. 120W
- B. 30W
- C. 600W
- D. 1200W

The correct answer is option [D].

 $I = 10\sin(120\pi)t = I_{\circ} \sin\omega t$

$$I_0 = 10A, R = 12\Omega$$

$$P = I_{a}^{2}R$$

QUESTION NO: 4

Choose the correct option.

The function of granulated carbon mixed with manganese [IV] oxide in a leclanche cell is to _____.

- A. prevent cell polarisation
- B. local action in the cell
- C. increase the e.m.f. of the cell to 2.15V
- D. make the cell a perfect radiator

The correct answer is option [A].

OUESTION NO: 5

Choose the correct option.

The terminal p.d. of a battery is 15V when an external resistance of 25Ω is connected and 18V when an external resistance of 40Ω is connected. Find the internal resistance of the battery.

- C A. 25Ω.
- xeera.ng _{B. 20Ω.}
 - C. 35Ω.
 - D. 15Ω.

The correct answer is option [B].

Hint: $I_1 = \sqrt[r]{R^1} = \frac{\epsilon}{\sqrt{R^1} + r}$, and $I_2 = \sqrt[r]{R^2} = \frac{\epsilon}{\sqrt{R^2} + r}$, where $I_1 = I_2 = I$, $E_1 = E_2 = E$, $V_1 = 15V$, $V_2 = 18V$, $R_1 = 25\Omega$, and $R_2 = 40\Omega$.

QUESTION NO: 6

Choose the correct option.

Which of the option is not a method of limitation of ohms law?

- A. The temperature of the conducting wire must vary
- B. The wire must not be under tension
- C. It must have uniform cross-sectional area
- D. It must be of same material from one end to the other end

The correct answer is option [A].

QUESTION NO: 7

Choose the correct answer.

A real image, equal in size to the object is obtained when the object is placed at the centre of curvature in front of a

- A. plane mirror
- O B. concave mirror
- C. convex mirror
- D. either convex or concave mirror

The correct answer is option [B]

QUESTION NO: 8

[Specific latent heat of vaporization of water = $2.3 \times 10^6 \text{JKg}^{-1}$]

A heating coil rated at 1000W is used to boil off 0.5kg of boiling water. The time taken to boil off the water is

- **A.** 1.59 x 10°s
- \bullet B. 1.15 x 10⁷s
- © C. 1.15 x 10⁵s
- D. 1.15 x 10³s

The correct answer is option [D]. $P = 1000 \text{ W}, m = 0.5 \text{Kg}, L_v = 2.3 \times 10^6 \text{JKg}^{-1}$

$$Pt = mL_{v} \Rightarrow t = \frac{mL_{v}}{P} = \frac{0.5 \times 2.3 \times 10^{6}}{1000} = 1150$$

QUESTION NO: 9

Choose the correct option.

An immersion heater is rated 100W. How long does it take the heater to raise the temperate of 2.5kg of water by 20° C?

[assume heat lost to the surrounding is negligible and specific heat capacity of water = 4200J/kg/k].

- A. 58.0 minutes
- B. 70.0 minutes
- C. 75.0 minutes
- D. 35.0 minutes

The correct answer is option [D].

$$I^{2}RT = \theta(mc + H)$$

Heat lost negligible = 100Wt = 20 x (2.5 x)

4200)

 $t = \frac{21000}{100} = 2100$ since 1m ->60s, $\frac{2100}{60} = \frac{2100}{100}$

35.0m

QUESTION NO: 10

Choose the correct option.

A machine with an input power of 2 kilowatts uses 80% of this power. If all the remaining energy appears as heat, and heats 40kg of iron, what will be the rise of temperature of this iron in 2min?

(Specific heat capacity of iron = 0.5 Jg K or 500 J/kg K).

- A. 9.6
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- B. 2.4°C
- C. 24°C
- Ō D. 12℃

The correct answer is option [B].

QUESTION NO: 11

Choose the correct option.

The ability of an object to regain its original shape

Xeera.noter an external force, which deformed it, has been removed is called _____.

- A. dislocation
- B. distortion
- C. elasticity
- D. restoration

The correct answer is option [C].

QUESTION NO: 12

Choose the correct answer.

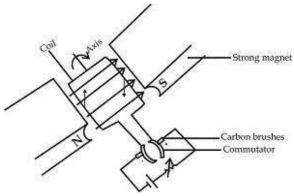
Figure-out the odd point in the following.

- A. Proportinal limit
- B. Elastic limit
- C. Yield point
- D. Fracture point

The correct answer is option [D]

QUESTION NO: 13

Choose the correct option.



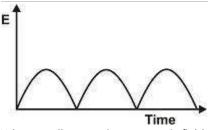
The diagram drawn is a simple electric motor that consist of the following parts EXCEPT _____.

- A. a power magnetic field in which the coil turns
- B. weak hair springs so as to give a small rotational control
- C. a commutator which consist of split copper ring with their two halves insulated from each other
- D. rectangular coil of wire known as the armature about an axis

The correct answer is option [B].

QUESTION NO: 14

Choose the correct option.



When a coil rotates in a magnetic field, the induced emf E at the brushes varies as shown in the diagram drawn, then _____.

- A. the speed of rotation varies
- B. the magnetic field has damaged easily
- C. the magnetic field becomes zero twice per revolution
- D. the ends of the coil are connected to a split-ring commutator

The correct answer is option [A].

QUESTION NO: 15

Choose the correct option.

A transformer is rated 240V. If the primary coil is 4000 turns and secondary voilage is 12V, determine the number of turns in the secondary coil.

- A. 100
- O B. 150
- C. 200
- D. 250

The correct answer is option [C].

Using the formula $= \frac{E_s}{E_P} = \frac{N_s}{N_s}$

where N_s = number of turns in the secondary

 $N_{\scriptscriptstyle p}$ = Number of turns in the primary

 $E_s = Voltage in the secondary$

 E_p = voltage in primary

QUESTION NO: 16

Choose the correct answer.

xeera.ngWhich color of the visible light spectrum has the greatest wavelength?

- A. Violet waves
- B. Red waves
- C. Infrared waves
- D. Radio waves

The correct answer is option [B]

QUESTION NO: 17

Choose the correct option.

The equations in the options represents Einstein photoelectric equation EXCEPT _____.

- \bullet A. $E_{max} = hf W_o$.
- \bullet B. $hf = E_{max} + W_o$.
- $C_{1} \frac{1}{2} m_{c} v_{m}^{2} = hf W_{o}$
- \bigcirc D. $E_{max} = hf + W_o$.

The correct answer is option [D].

Hint: $E_{max} = maximum \text{ energy of}$

electron, $1/2[m_e V_m^2] = maximum kinetic$

PHYSICS-
energy of electron, $h = \text{plank constant}$, $W_{\circ} = \text{work function}$, $f = \text{frequency of electron}$, $m_{\scriptscriptstyle e} = \text{electron mass}$, $v_{\scriptscriptstyle m} = \text{speed of electron}$ emitted. QUESTION NO: 18 Choose the correct option.
Which of the following is not a nuclear reactor?
 A. Nuclear core B. Graphite moderation C. Several neutrons D. Boron or cadimium rods The correct answer is option [C]. QUESTION NO: 19 Choose the correct option.
Which of the following is the law which indicates how the pressure of a fixed mass of air varies with its temperature as recorded on a mercury thermometer, when the volume remains constant?
A. Charles' law

A. Charles' law

B. Pressure law

C. Boyle's law

D. Ideal gas law

The correct answer is option [B].

Choose the correct option.

The pressure of two moles of an ideal gas at temperature of 27° C and volume 10^{-2} m³ is _____. [R = 8.313Jmol⁻¹K⁻¹]

A. 4.99 x 10⁻⁵Nm⁻²

B. 9.80 x 10⁻⁵Nm⁻²

C. 4.98 x 10⁻⁵Nm⁻²

D. 9.80 x 10⁻⁵Nm⁻²

The correct answer is option [A].

PV = nRT

 $P = {}^{\text{nRT}/\text{\tiny V}} = {}^{2\,\text{\tiny X}\,8.313\,\text{\tiny X}300/}_{10^{\text{\tiny -2}}} = 498780 = 4.99 \times 10^{\text{\tiny -5}} Nm^{\text{\tiny -2}}$

QUESTION NO: 21

Choose the correct option.

	moving coil loud speaker current enters it at the through
0	A. the soft iron core
\circ	B. soft iron core plates
\circ	C. the leads
\circ	D. the paper cone
The	e correct answer is option [C].
QUE	ESTION NO: 22
Cho	ose the correct option.
The	moving coil galvanometer is used to measure
0	A. small values of current
\circ	B. large values of current
0	C. current of about 100A
0	D. only A and C
The	e correct answer is option [A].
Hin	t: Galvanometer measures current in
ng Mil	limeters.
QUE	ESTION NO: 23
Cho	ose the correct option.
If th	e mass of the earth is 6.0x10 ²⁴ kg of radius
6.4x	10⁴m. Find the force per unit mass of the earth
	: 6.7 x 10 ⁻¹¹ Nm² kg ⁻²].

B. 190854m s⁻².

C. 98144.5m s⁻².

D. 286411m s⁻².

The correct answer is option [C].

Hint: Use the equation $g = GM_{/r^2} = [6.7 \times 10.11] \text{ x}$

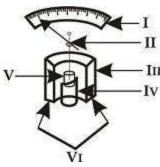
 $6x10^{24}]/_{[(6.4x10^4)^2]}$

QUESTION NO: 24

Choose the correct option.

A thin wire with heavy weights attached to both ends is hung over a block of ice resting on two supports. If the wire cuts through the ice block while the block

remains solid behind the wire, the process is called	C. inelastic collision
·	D. elastic collision
C A. Fusion	The correct answer is option [B].
C B. Sublimation	QUESTION NO: 28
_	Choose the correct option.
C. Condensation	An object, A, of mass 16kg moving with a velocity of
C D. Regelation	10m/s collides with another body, B, of mass 10kg
The correct answer is option [D].	moving in the opposite direction with a velocity of
QUESTION NO: 25	12m/s, the common velocity in the direction of body
Choose the correct option.	A, after collision is
Specific heat capacity 26.4Jkg ⁻¹ K ⁻¹ of a body means	O A. 5.2m/s
that when 26.4J of heat energy is supplied to a body	O B. 1.45m/s
of	_
A. mass 1000kg, the temperature rises by 1k	C. 1.33m/s
B. mass 1kg, the temperature rises by 1000k	D. 0.45m/s
- B. mass mg, and temperature mass sy rotein	The correct answer is option [C].
a. mass mg, the temperature rises by m	$U_{A} = 10 \text{m/s}$
D. mass 1000kg, the temperature rises by	$U_B = 12 \text{m/s}$
1000k. The correct answer is option [C].	mass of body $M_A = 16 \text{kg}$
=	$M_B = 10 \text{kg}$
OLIESTION NO. 26 XECT	$\mathbf{a}.\mathbf{nor} \times \mathbf{n} + \mathbf{m} \times \mathbf{n} = (\mathbf{m} + \mathbf{m}) \mathbf{n}$
QUESTION NO: 26 XCCI Use the information to answer the question.	$\text{3.nQ}_{A} \times U_{A} + M_{B} \times U_{B} = (M_{A} + M_{B})V$ $(16 \times 10) + (-10 \times 12) - (16 + 1.4) \times 160 - 160$
Use the information to answer the question. A train slows down from a velocity of 108km/h	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 -$
Use the information to answer the question.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 120 = 30 \times$
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s².	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 100 = 30 \times $
Use the information to answer the question. A train slows down from a velocity of 108km/h	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 1.33 \text{ m/s}$
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 100 = 30 \times $
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 100 \times 100 = 1.33 \text{m/s}$ QUESTION NO: 29 Choose the correct option.
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs.	$(16 \text{ x } 10) + (-10 \text{ x } 12) = (16 + 14) \text{ V } 160 - 120 = 30 \text{ V}$ $40 = 30 \text{ V}$:. $V = {}^{40}/{}_{30} = 1.33 \text{ m/s}$ QUESTION NO: 29 Choose the correct option. Mechanical advantage equals velocity ratio in any
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. A. 27.5m.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 100 \times 100 = 1.33 \text{m/s}$ QUESTION NO: 29 Choose the correct option.
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. A. 27.5m. B. 87m.	$(16 \text{ x } 10) + (-10 \text{ x } 12) = (16 + 14) \text{ V } 160 - 120 = 30 \text{ V}$ $40 = 30 \text{ V}$:. $V = {}^{40}/{}_{30} = 1.33 \text{ m/s}$ QUESTION NO: 29 Choose the correct option. Mechanical advantage equals velocity ratio in any
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. A. 27.5m. B. 87m. C. 87.5m.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 1.33 \text{ m/s}$ QUESTION NO: 29 $\text{Choose the correct option.}$ $\text{Mechanical advantage equals velocity ratio in any machine when } \underline{\hspace{1cm}}$
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. C A. 27.5m. C B. 87.5m. C D. 212.5m.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 1.33 \text{ m/s}$ QUESTION NO: 29 $\text{Choose the correct option.}$ $\text{Mechanical advantage equals velocity ratio in any machine when } \underline{\hspace{1cm}}$ $\text{O} \text{A. effort = load}$ $\text{O} \text{B. efficiency = 0}$
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. C A. 27.5m. C B. 87m. C C. 87.5m. C D. 212.5m. The correct answer is option [C]. Hint: Use the equation s = ut + 1/2 at². QUESTION NO: 27	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 1.33 \text{ m/s}$ CUESTION NO: 29 Choose the correct option. Mechanical advantage equals velocity ratio in any machine when A. effort = load B. efficiency = 0 C. velocity ratio = 1
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. A. 27.5m. B. 87m. C. 87.5m. D. 212.5m. The correct answer is option [C]. Hint: Use the equation s = ut + 1/2 at².	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 1.33 \text{ m/s}$ QUESTION NO: 29 $\text{Choose the correct option.}$ $\text{Mechanical advantage equals velocity ratio in any machine when } \underline{\hspace{1cm}}$ $\text{O} A. \text{effort = load}$ $\text{O} B. \text{efficiency = 0}$ $\text{C} \text{C. velocity ratio = 1}$ $\text{D} \text{friction in the machine = 0}$
Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. C A. 27.5m. C B. 87m. C C. 87.5m. C D. 212.5m. The correct answer is option [C]. Hint: Use the equation s = ut + 1/2 at². QUESTION NO: 27 Choose the correct option.	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 40 = 1.33 \text{ m/s}$ CUESTION NO: 29 Choose the correct option. Mechanical advantage equals velocity ratio in any machine when A. effort = load B. efficiency = 0 C. velocity ratio = 1
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Use the information to answer the question. A train slows down from a velocity of 108km/h with a uniform deceleration of 5m/s². Find the total distance covered by the train after 5secs. C A. 27.5m. C B. 87.5m. C D. 212.5m. The correct answer is option [C]. Hint: Use the equation s = ut + 1/₂at². QUESTION NO: 27 Choose the correct option. The instantaneous reponse of an object to the force that acts on it is known as	$(16 \times 10) + (-10 \times 12) = (16 + 14) \times 160 - 120 = 30 \times 40 = 30 \times 40 = 30 \times 20 \times 200 \times 200$
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From the diagram drawn I and IV are _____

- A. solenoid and spring to contact angle of deflected
- B. scale and current in and out
- C. moveable soft iron and fixed soft iron
- O. scale and moveable soft iron

The correct answer is option [B].

QUESTION NO: 31

Choose the correct option.

Which of the following is a unit of mass?

- A. N m⁻² s⁻².
- B. Ns² m⁻¹.
- C. Pa/Volume.
- D. Acceleration meter square.

The correct answer is option [B].

QUESTION NO: 32

$[g = 10ms^{-2}]$

Determine the magnitude of the force required to just move a 20kg object along a horizontal surface if the coefficient of friction is 0.2.

- A. 400.0N
- B. 40.0N
- C. 4.0N
- D. 0.4N

The correct answer is option [B].

$$\mu = F/R$$
 but $R = mg = 20 \times 10 = 200N$

Hence $F = \mu R = 0.2 \times 200 = 40 \text{N}$

QUESTION NO: 33

Choose the correct option.

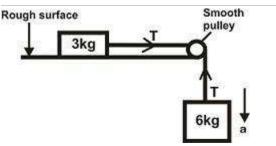
Which of the following statements about static friction is correct?

- A. It is independent of nature of surface in contact
- B. Depends on the area of surface in contact
- C. Depends on weight of the moving body
- D. Depends on the relative motion between the surface contact

The correct answer is option [B].

QUESTION NO: 34

Choose the correct option.



In the figure beside the coefficient of static friction is **Xeera.not**. If the tension in the string is T, the acceleration of

the system in motion is _____.

 $[g = 10ms^{-2}].$

- A. 3ms⁻²
- B. 5ms⁻²
- C. 9ms⁻²
- D. 15ms⁻²

The correct answer is option [B].

 $T- \mu m_1 g = m_1 a$

$$T - 0.5 \times 3 \times 10 = 3a$$

$$T-15 = 3a....(I)$$

 $m_2g - T = m_2a$

$$6 \times 10 - T = 6a$$

$$60 - T = 6a....(II)$$

(I) + (II)

$$T - 15 = 3a....(I) + 60 - T =$$

$$45 = 9a$$

$$a = 45/9 = 5 \text{m/s}^2$$

QUESTION NO: 35

Choose the correct answer.	Which of the following is a vector quantity?
The physical quantity describing motion and whose	A. Displacement.
measure is the product of distance travelled and the	B. Energy.
time taken to travel that distance is	C. Temperature.
C A. mass	D. Mass.
C B. speed	The correct answer is option [A].
C C. weight	QUESTION NO: 39
	Choose the correct option.
Di displacement	
The correct answer is option [B] QUESTION NO: 36	If the source of sound is moving, a stationary listener
Choose the correct option.	will hear a sound of different frequency. This is called
enouse the correct option.	
A man exerts a pressure of 2.8 x 10³Nm-² on the	A. doppler effect
ground and has 4 x 10 ⁻² m ² of his feet in contact with the ground. The weight of the man is	O B. resonance
	C. ultrasound
C A. 70N	D. diffraction of sound
B. 102N	The correct answer is Option [A].
C. 112N	QUESTION NO: 40
C D. 140N xeera	Choose the correct option.
The correct answer is option [C].	A string stretched firmly between two point 52cm
$P = F_A$	apart at its centre. What is the number of vibration
$W = F = P \times A = 2.8 \times 10^{3} \times 4 \times 10^{-2} = 11.2 \times 10^{-2}$	made by the string if one of the wave produced is 280m/s?
$10^{\circ} = 112N$	20011/5:
QUESTION NO: 37	A. 380Hz.
Choose the correct option.	© B, 269.2Hz.
What is the disadvantage of the pin-hole camera	C. 420Hz.
when in use?	D. 180.23Hz.
A. The object distance is definite and the hole	The correct answer is option [B].
must be small.	Hint: $\lambda = 2 \times 52 = 104 \text{cm} = 1.04 \text{m}$,
B. The image distance is definite and the hole	therefore, $f = \sqrt{\lambda} = \frac{280}{1.04} = 269.2$ Hz.
must be large.	QUESTION NO: 41
C. The object distance is definite and the hole	Choose the correct option.
must be large.	·
D. None of the above.	In which of the following material media would sound
The correct answer is option [A].	travel fastest?
QUESTION NO: 38	A. Gas
Choose the correct option.	O B. Water

C. Oil	1 ↑
C D. Metal	P
The correct answer is option [D].	
QUESTION NO: 42	
Choose the correct option.	
A dynamic equilibrium exists between the liquid molecules and the vapour molecules at a given temperature is called	If P represent an object distance measured V_P and plotted against image distance V_Q . Hence determine
A. atmospheric pressure	the focal length f from the graph.
B. saturated vapour pressure	\circ A. $f = \%$.
C. gas pressure	
D. vapour pressure	B. $f = \frac{1}{4}$.
The correct answer is option [B].	C. <i>f</i> is the reciprocal of the slope.
N/B: whenever saturation is mentioned, the	D. <i>f</i> is the reciprocal of the intercept on both
first thing that should come to a student's	sides.
mind should be equilibrium.	The correct answer is option [D].
QUESTION NO: 43	QUESTION NO: 45
Choose the correct option.	Choose the correct option.
If a room is saturated with water vapour, the temperature of the room must be	The crest of a rocked boat is 120m apart and the .nQlocity is 28m/s. Find the interval the wave crest reaches the boat.
C A. At 0°C	A. 3.16secs.
B. Above the dew point	© B. 13secs.
C. At 100°C	C. 4.28secs.
D. Below or at the dew point	D. 42.01secs.
The correct answer is Option [C].	The correct answer is option [C].
If a room is saturated with water vapour, the	Velocity = $\frac{1}{2}$
temperature of the room must be at 100°C.	$t = \frac{d}{v} = \frac{120}{28} = 4.28 \text{secs.}$
The polished kettle cools down more quickly by the process of conduction.	QUESTION NO: 46
QUESTION NO: 44	Choose the correct option.
Choose the correct option.	·
	The ability of a wave to spread around corners is
	called
	A. polarisation
	B. dispersion
	C. diffraction

D. reflection

The correct answer is option [C].

QUESTION NO: 47 QUESTION NO: 50 Choose the correct option. Choose the correct option. A pump lifts a 500kg of water across a height of 4m in At what point does potential energy of a free falling 5escs. Find the power of the pump. stone becomes zero? [Take $g = 10m/s^2$]. A. In the air. A. 400W. B. On the ground. B. 4KW. C. When it penetrates the ground. C. 3.5W. D. None of the above. D. 2KW. The correct answer is option [B]. The correct answer is option [B]. **QUESTION NO: 51** Hint: Using the equation Power, P Choose the correct option. = [Force×distance]/time• In a reverse biased junction diode, current flows in by **QUESTION NO: 48** Choose the correct option. A. majority carriers What is the average power of a dog weighing 700N climbing up a flight of stairs to a height of 12m in B. minority carriers 4secs? C. positive holes alone D. electrons alone A. 234W. **xeera**.**n**The correct answer is option [A]. B. 165W. **QUESTION NO: 52 C.** 144W. Choose the correct option. D. 194.4W. A wire of length 100cm and cross-sectional area 2.0 x The correct answer is option [D]. 10^{-3} cm² has a resistance of 0.1Ω , its electrical Hint: Power, P = [Force x distance]/time. conductivity is ___ **QUESTION NO: 49** Choose the correct option. A. $2.0 \times 10^{-6} \Omega^{-1}$ cm⁻¹ B. $5.0 \times 10^{7} \Omega^{-1} \text{ cm}^{-1}$ If a mass 50,000g has a velocity of 36km/h. Find its Kinetic energy. C_{\bullet} 6.0×10⁻⁶ Ω^{-1} cm⁻¹ D. $5.0 \times 10^{5} \Omega^{-1} \text{ cm}^{-1}$ A. 2500J. The correct answer is option [D]. B. 3500J. **QUESTION NO: 53** C. 2800J. Choose the correct option. D. 3000J. Which of the following is a disadvantage of parallel The correct answer is option [A]. cells? Hint: Use the equation K.E. = 1/2 x [mv²] but 50,000g = 50kg and 36km/h =A. The cell is not easily used up $10\text{m/s} \rightarrow \text{K.E.} = \frac{1}{2} \times 50 \times 10^2 = 25 \times 100 =$ B. The cell can not be left together 2500J. undisconnected

C No exhaustion of cells can occur	where $\cos \theta = \ddot{O}[1 - \sin^2 \theta]$
- G, The extraorder of constant occur.	$\sin \theta = \sqrt{1 - \sin^2 \theta}$
D. Voltage strength increases	
The correct answer is option [B].	QUESTION NO: 57
QUESTION NO: 54	Choose the correct option.
The period of a simple pendulum is 2secs and swings through an amplitude of 5cm. What is the maximum	An oscillating pendulum bob has a mass 0.1kg. Its amplitude is 0.01m and its period 2s, the constant ω in the acceleration formula is
magnitude of the velocity of the bob?	A. 31.42 rad/s
C A. ±28cm/s	© B. 0.3142 rad/s
B. ±14cm/s	C. 314.2 rad/s
C. ±16cm/s	D. 3.142 rad/s
O D. ±32cm/s	The correct answer is option [D].
The correct answer is option [C].	QUESTION NO: 58
$\omega = \frac{2\pi i}{\tau} = \frac{2\pi i}{\tau} = \frac{\pi secs}{\tau}$	Choose the correct option.
$v=\pm\omega\ddot{O}r^{_{2}}$ - $x^{_{2}}=\pm\pi\ddot{O}5^{_{2}}=\pm16cm/s$ QUESTION NO: 55 Choose the correct option.	The mass of a specific gravity bottle is 15.2g when it is empty. It is 24.8g when filled with kerosene and 27.2g when filled with distilled water. Calculate the relative density of kerosene.
In circular motion a force acting in a direction towards the centre of the circle is called Xeera	
the centre of the circle is called Xeera	•
A. contact force	O B. 1.10 O C. 0.90
C B. non contact force	_
C. centripetal force	O D. 0.80 The correct answer is option [D].
O D. friction force	Weight of kerosene = 24.8 - 15.2 weight of water = 27.2 - 15.2
The correct answer is option [C].	But R.D = $\frac{\text{mass of kerosene}}{\text{mass of water}} = \frac{9.6}{12} = 0.8$
QUESTION NO: 66	QUESTION NO: 59
Choose the correct option.	Choose the correct option.
A pendulum bob of mass 4kg attached to a string 1m in length is made to swing in a horizontal circle of radius 5cm, find the period of the motion.	Given that the specific heat capacity c_w of water is 4180J/kg/K, how long will it take to heat 3kg of water from 28°C to 88°C in an electric kettle taking 6A from a 220V supply?
C A. 1.0s	
C B. 2.0s	A. 9½mins.
C. 4.0s	C B. 2mins.
O D. 6.0s	C. 20mins.
The correct answer is option [B].	D. 4620mins.
Using the formula $T = 2\pi \times \ddot{O}[l_{LOS}\theta/g]$	The correct answer is option [A].
55mg mc 151mam 1 2m C[/5]	QUESTION NO: 60

Choose the correct option.

An electric filament lamp is marked 6V and 0.4A. Find the rate at which energy is used by the lamp when it is connected to a 6V supply.

A. 0.07W

O B. 1.00W

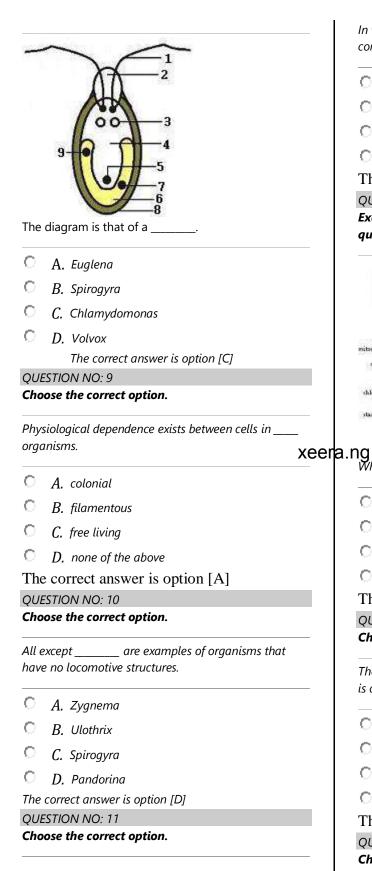
C. 2.40W

D. 15.00W

The correct answer is option [C].

xeera.ng

QUESTION NO: 1	C. chlorine
Choose the correct option.	D. helium
Scurvy is a deficiency disease caused by lack of	The correct answer is option [A].
vitamin	QUESTION NO: 5 Choose the correct option.
О А. В	choose the correct option.
О В. С	In the structure of RNA, uracil pairs with
C. D	C A. cytosine
O D. A	B. thymine
The correct answer is option [B]	C. guanine
QUESTION NO: 2	D. adenine
Choose the correct option.	The correct answer is option [D].
The nitrifying bacteria, nitrosomonas converts	QUESTION NO: 6
ammonia to	Choose the correct option.
A. nitrates	In Mendel's experiments, it was discovered that the
O B. nitric acid	F₁ generation of a monohybrid cross between a brown cock and a white hen were all brown because the
C. nitrites	gene for the
O D, nitrous oxide	· · · · · · · · · · · · · · · · · · ·
The correct answer is option [C] xeer	a.ng A. brown colour was recessive
QUESTION NO: 3	B. white colour was dominant
Choose the correct option.	C. brown colour was dominant
What is ecology?	D. white colour did not combine
what is ecology:	The correct answer is option [C]
A. It is the study of plants and animals in	In a monohybrid cross, the dominant form of
relation to their environment.	the character masks the recessive form in the
B. It is the study of the human digestive system	F ₁ generation.
in relation to the environment.	QUESTION NO: 7
C. It is the study of plants.	Choose the correct option.
D. It is the study of plants and animal	The organ which is sensitive to light in <i>Euglena</i> is the
harvesting.	
The correct Answer is option [A].	
QUESTION NO: 4	C A. gullet
Choose the correct option.	B. chloroplast
The four bases of the DNA chain are held together by	C. eyespot
bonds.	D. contractile vacuole
	The correct answer is option [C]
A. hydrogen	QUESTION NO: 8
C B. oxygen	Choose the correct option.



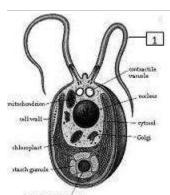
In what year did Robert Hooke discover the honey comb?

- A. 1985
- 🤼 В. 1988
- 🤼 С. 1986
- D. 1665

The correct Answer is option [D].

QUESTION NO: 12

Examine the diagram carefully and answer the question.



gyrensid naturaled by stank pumilis

What is the name of the part labelled 1?

- A. Flagellum
- B. Proboscis
- C. Villi
- D. Pseudopodia

The correct answer is option [A]

QUESTION NO: 13

Choose the correct option.

The organelle responsible for protein synthesis in cells is called _____.

- A. ribosome
- B. mitochondria
- C. DNA
- D. nucleolus

The correct answer is option [A]

QUESTION NO: 14

Choose the correct option.

All are examples of annelida except	
C A. earthworm	
O B. leech	
C. tube worms	
C D. tapeworms	
The correct answer is option [D]	What is the name of this animal?
Tapeworms are in the phylum	<u> </u>
platyhelminthes.	C A. Egg
QUESTION NO: 15	C B. Snail
Choose the correct option.	
Phyla is to animals as is to plants.	C. Snailing
	C D. Snake
A. kingdom	The correct Answer is option [B].
C B. genera	QUESTION NO: 18
C. species	Choose the correct option.
C D. division	The following agencies are responsible for conservation in Nigeria except
The correct answer is option [D]	ra na
QUESTION NO: 16	A. Forestry Departments
Choose the correct option.	B. Nigerian Conservation Society
The Greek word 'logos' means	C. Games Reserve Authority
A. life	D. Red Cross Society
O B. help	The correct answer is option [D]
•	QUESTION NO: 19
C. word	Choose the correct option.
C D. study	are resources which when
The correct answer is option [D]	exhausted cannot be replaced or recovered.
QUESTION NO: 17	<u> </u>
Look at the diagram carefully and answer the question correctly.	A. Non-renewable resources
question correctly.	B. Renewable
	C. Conserved
	C D. Recycled
	D. RecycledThe correct answer is option [A]

The conservation of natural resources can be achieved by the following except	C. thickness
	D. all of the above
A. creation of national parks	The correct answer is option [A].
B. formation of conservation societies and	QUESTION NO: 24
agencies	Choose the correct option.
_	Water moves by from the guard cells to the
C. establishment of game reservesD. deregulated harvesting	adjacent epidermal cells.
The correct answer is option [D]	O A 1975 :
QUESTION NO: 21	igcap A. diffusion
Choose the correct option.	B. osmosis
	C. force
Which of the following represents the evolutionary	
sequence in these plants? 1. Flowering plants; 2. Ferns;	O D. pressure
3. Mosses; 4. Algae; 5. Conifers.	The correct answer is option [B].
O A. 2-> 1-> 4-> 3-> 5	QUESTION NO: 25
A. 2-> 1-> 4-> 3-> 5	Look at the diagram carefully and answer the
© B. 5->4->3->2->1	question that follows.
C. 2-> 4-> 5-> 1-> 3	The property of the second
D. 4->3->2->5->1 xeer	a ng
The correct answer is option [D]	10400
QUESTION NO: 22	What is the name of this structure shown below?
Choose the correct option.	A. Flame cell
	A. Flame cell
The nature of the mouth parts of dragonfly is	C B. Worm
C A. probosis	C. Spirogyra
C B. mandibulate	D. Euglena
C restrum	The correct Answer is option [A].
C. rostrum	QUESTION NO: 26
C D. cilliate	Choose the correct option.
The correct answer is option [B].	In plants, hormones are manufactured in the
QUESTION NO: 23	following except
Choose the correct option.	
	 A. apical meristems of roots and shoots
Variations in pressure changes the shapes of the guard cells.	B. young growing leaves
	C. developing seeds or fruits
C A. turgor	
C B. elastic	D. bright coloured flowers
	The correct answer is option [D].

QUESTION NO: 27	D. autonomous nerve systems	
Choose the correct option.	The correct Answer is option [C].	
is not a plant hormone.	QUESTION NO: 31	
S not a plant normone.	Choose the correct option.	
C A. Auxin	In the biuret's test, some protein was mixed with	
© B. Parathormone	sodium hydroxide solution. Which of the following chemicals should be added to the mixture for positive	
C. Gibberellins	results?	
D. Cytokinins	C A Management with the	
The correct answer is option [B].	A. Mercurous nitrate	
QUESTION NO: 28	B. Copper sulphate	
Choose the correct option.	C. Mercuric nitrate	
What organ is located just below the diaphragm?	C D. Sodium carbonate	
^	The correct answer is option [B]	
A. Kidney	QUESTION NO: 32	
O B. Liver	Choose the correct option.	
C. Stomach	Which of these is the terminal portion of the alimentary	
O D. Heart	canal of a mammal?	
The correct Answer is option [B]. xeer	a.ng A. Oesophagus	
QUESTION NO: 29	Ti. Ocsophagas	
Choose the correct option.	C B. Stomach	
Reading the verdict of a case by a judge or magistrate	C. Rectum	
is an example of	C D. Colon	
	The correct answer is option [C]	
A. a reflex action	QUESTION NO: 33	
O B. an instinct	Choose the correct option.	
C. a conditioned reflex	In the body, dietary vitamins plays the role of	
O D. a voluntary action		
The correct answer is option [D]	A. supplying carbohydrates and fats	
QUESTION NO: 30	B. influencing certain chemical processes	
Choose the correct option.	C. stimulating the muscles of the alimentary	
The abbreviation ANS in biology stands for	canal	
	D. digesting proteins	
A. Anterior nerves site	The correct answer is option [B]	
B. automatic nerve system	QUESTION NO: 34	
C. autonomic nervous system	Choose the correct option.	

Which of the following pairs of organisms are photosynthetic?	C. Anaphase
	D. Metaphase
A. Amoeba and Paramecium	The correct answer is option [C]
B. Volvox and Rhizopus	QUESTION NO: 38
•	Choose the correct option.
C. Chlamydomonas and Euglena	Reduction of cholesterol intake is a remedy for
D. Nostoc and Plasmodium	
The correct answer is option [C]	C A. cancer
QUESTION NO: 35	C B. gall stones
Choose the correct option.	
The following are the main waste products in	C. kwashiorkor
animals except	C D. ricket
	The correct answer is option [B].
C A. sweat	QUESTION NO: 39
C B. water	Choose the correct option.
C. carbon (iv) oxide	A drupe consists of layers.
D. nitrogenous compounds	O A. 2
The correct answer is option [A].	
Sweat is the water excreted from the skin. Xee	era.ng <i>B. 4</i>
QUESTION NO: 36	C C. 5
Choose the correct option.	O D. 3
Plants reproduce asexually through the following	The correct answer is option [D].
ways except	QUESTION NO: 40
	Choose the correct option.
A. fragmentation	
C B. budding	The and form the respiratory structure.
C. multifussion	C A. trachea and lungs
D. vegetative propagation	C B. nostrils and nose
The correct answer is option [C].	C, ear and nostrils
QUESTION NO: 37	
Choose the correct option.	D. nose and nostrils
During authorise should share the first transfer the	The correct Answer is option [A].
During mitosis, at what stage do the two daughter	QUESTION NO: 41
chromosomes separate completely?	Choose the correct option.
A. Early prophase	
B. Telophase	

\sim	The correct answer is option [B]
(i)	Sclerenchyma, cartilage and chitin are
(ii)	supporting tissues
	QUESTION NO: 44
(iv)	Choose the correct option.
The diagram shown is that of the	The hardest substance in the body of man is the
A. teeth	·
C B. tongue	C A. tooth
C. ear	C B. bone
C D. nose	C. all of the above
The correct answer is option [B].	D. none of the above
QUESTION NO: 42	The correct answer is option [A].
Choose the correct option.	QUESTION NO: 45
What is haemolysis?	Choose the correct option.
	is formed in the skeleton of complex vertebrates.
A. The bursting of erythrocytes causing the	is formed in the sketeton of complex vertebrates.
release of haemoglobin into the surrounding fluid.	A. Chitin
	a.ng B. Fibre
release of cytoplasmic contents into the surrounding fluid.	C. Cartilage
C. The bursting of leucocytes causing the release	O D. Bones
of haemoglobin into the surrounding fluid.	The correct Answer is option [C].
 D. It is the opening of the cytoplasm to release 	QUESTION NO: 46
cells.	Choose the correct option.
The correct Answer is option [A].	The consequence has a bight and the control of the bases
QUESTION NO: 43	The process by which cartilage tissues harden into bone due to the addition of minerals is described as
Choose the correct option.	due to the dutition of interiors is described as
Which of the following groups carry out similar	C A. hydrogenation
functions in living things?	© B. ossification
A. Vertebral column, chitin and guard cells	C. mineralisation
B. Sclerenchyma, cartilage and chitin	D. regeneration
C. Tendon, chitin and neutron	The correct Answer is option [B].
•	QUESTION NO: 47
D. Collenchyma, intercellular spaces and blood	Choose the correct option.
vessels	

Auxins in plants and animals are carried from the site

of production to target tissues by _____.

	QUESTION NO: 51	
C A. respiratory system	Choose the correct option.	
C B. excretory system	Which of the following is <i>not</i> an example of a	
C. reproductive system	monosaccharide?	
D. transport system	C A. Glucose	
The correct answer is option [D].	C B. Lactose	
QUESTION NO: 48	0.05	
Choose the correct option.	C. Fructose	
An example of morphological variation is	C D. Ribose	
	The correct answer is option [B].	
A. blood group	QUESTION NO: 52	
O B. height	Choose the correct option.	
C. ability to roll the tongue	Mucus is composed of	
O D. behavioural pattern	A. protein, carbohydrate and sulphur	
The correct answer is option [B].	C B. salt and fibre	
QUESTION NO: 49	C. fibre and carbohydrate	
Choose the correct option.		
A variation where there are sharp differences between Xeer	a.ng D. muchin, cells, water and inorganic salts	
the various forms of a given feature is called	The Correct Answer is option [D].	
•	QUESTION NO: 53	
A. continuous variation	Choose the correct option.	
© B. discontinuous variation	Animals that feed only on plants are called	
C. stable variation	A. carnivores	
D. unstable variation	C B. herbivores	
The correct Answer is option [B].	_	
QUESTION NO: 50	C. carnivorous animals	
Choose the correct option.	D. fresh animals	
The major types of man's fingerprints do not include	The Correct Answer is option [B].	
	QUESTION NO: 54	
	Choose the correct option.	
A. arch	is an organic satalyst that promotes or speeds	
C B. whorl	is an organic catalyst that promotes or speeds up chemical changes in living cells.	
C. simple	A. A promoter	
C D. loop		
The correct answer is option [C]	B. A chemical	

C. An enzyme	Which of the following resources is non-renewable?
D. A parasite	A. Forest
The Correct Answer is option [C].	-
QUESTION NO: 55	B. Wildlife
Choose the correct option.	C. Mineral deposits
Lack of in the body causes pellagra.	O D. Water
C A. iodine	The correct answer is option [C]
C B. vitamin C	
C. protein	
C D. niacin	
The correct answer is option [D]. Niacin is	
also known as vitamin B ₃	
QUESTION NO: 56	
Choose the correct option.	
Bacteria and are commonly responsible for the decay of dead plants and animals.	
C A. viruses Xee	era.ng
C B. fungi	
C. earthworms	
C D. yeasts	
The correct answer is option [B].	
The correct answer is option [B]. QUESTION NO: 57	
QUESTION NO: 57	
QUESTION NO: 57 Choose the correct option. Which of the following instrument is used to measure	
QUESTION NO: 57 Choose the correct option. Which of the following instrument is used to measure the speed of a stream?	
QUESTION NO: 57 Choose the correct option. Which of the following instrument is used to measure the speed of a stream? A. Simple float	
QUESTION NO: 57 Choose the correct option. Which of the following instrument is used to measure the speed of a stream? A. Simple float B. Secchi disc	
Choose the correct option. Which of the following instrument is used to measure the speed of a stream? A. Simple float B. Secchi disc C. Quadrant frame	
Choose the correct option. Which of the following instrument is used to measure the speed of a stream? A. Simple float B. Secchi disc C. Quadrant frame D. Rain gauge	

CURRENT AFFAIRS for Rivers State University POST UTME

#1. Who formed the first political party in Nigeria?

Answer: Herbert Macauly

#2. What was the first political party in Nigeria?

Answer: Nigerian National Democratic Party (NNDP)

#3. Who is the current president of Nigeria?

Answer: Bola Ahmed Tinubu

#4. Who is the current vice president of Nigeria?

Answer: Kashim Shettima

#5. What does the eagle in the Nigerian coat of arm represent?

Answer: Strength

#6. What do the two horses on the Nigerian coat of arm represent?

Answer: **Dignity**

#7. What was the black shield in the Nigerian coat of arm stand for?

Answer: Nigerian's fertile soil

#8. What does the white color in Nigerian flag stand for?

Answer: **Peace**

#9. What does the green color in Nigerian flag represent?
Answer: Forests and abundant natural wealth of Nigeria

#10. Nigeria is divided into how many geopolitical zones?

Answer: Six (6) geopolitical zones

#11. What was the first capital city in Nigeria?

Answer: Calabar

#12. What is the capital of Nigeria Now?

Answer: Abuja

#13. Who is the current Nigerian Deputy Senate president?

Answer: Senator Barau Jibrin

#14. What is the name of Nigerian senior national team in football?

Answer: Super Eagles

#15. When did Nigerian Golden eaglets win the world under-17 FIFA world cup

Answer: **1985**, **1993**, **2007**, **2013**, **2015**

#16. Who was the first female vice chancellor of Nigerian university?

Answer: Grace Alele Williams

#17. Who gave Nigeria her name:

CURRENT AFFAIRS-Answer: Flora Shaw

#18. Who designed the Nigerian flag? Answer: **Michael Taiwo Akinkunmi**

#19. Who was the first man to buy a car in Nigeria?

Answer: Bob Jensen

#20. Who was the first woman to buy a car in Nigeria?

Answer: Funmilayo Ransome Kuti

#21. Who was the first woman to drive a car in Nigeria?

Answer: Funmilayo Ransome Kuti

#22. What is the first TV station in Nigeria?

Answer: Western Nigerian Government Broadcasting Corporation (WNTV) in 1959

#23. When was Nigeria formed?

Answer: 1914

#24. Where was crude oil first discovered in Nigeria?

Answer: Oloibiri Oilfield, located in Oloibiri in Ogbia LGA of Bayelsa State

#25. Who was the first Nigerian to become a Noble Laureate?

Answer: Wole Soyinka

#26. Who is the Nigerian current speaker of the house of Assembly?

Answer: Hon. Tajudeen Abbast

#27. What is the premier university in Nigeria?

Answer: University of Ibadan

#28. Who is the minister of education in Nigeria?

Answer: Prof. Tahir Mamman

#29. Who is the current chief justice of Nigeria?

Answer: Olukayode Ariwoola

#30. When did Nigeria have her independent?

Answer: 1st October 1960

#31. When did Nigeria become a republic?

Answer: 1st October 1963

#32. When was the first military coup carried out in Nigeria?

Answer: 1966

#33. How many local Government do we have in Nigeria?

Answer: 774

#34. Who is the first Nigerian president?

Answer: Dr Nnamdi Azikiwe

#35. Who was Nigerian first executive president?

Answer: Alhaji Shehu Aliyu Shagari

#36. Who was the Nigerian first prime minister?

Answer: Abubakar Tafawa Balewa

#37. What is the largest continent in the world?

Answer: ASIA with population of 4,700,000,000 while Australia & Oceania is the smallest

continent

#38. What are the five Oceans in the world?

Answer: Pacific Ocean, Atlantic Ocean, Indian Ocean, Southern Ocean, Arctic Ocean

#39. What is the full meaning of **UNICEF**?

Answer: United Nations International Children's Emergency Fund

#40. Who is the current Senate President in Nigeria?

Answer: Sen. God'swill Akpabio

#41. Which country's flag is called the Union Jack?

Answer: Great Britain

#42. When did Nigeria become a Republic?

Answer: **1963**

#43. What is centenary?

Answer: 100 years xeera.ng

#44. What is Nigeria?

Answer: Nigeria officially the Federal Republic of Nigeria, is a federal constitutional republic comprising 36 states and its Federal Capital Territory, Abuja. Nigeria is located in West Africa and shares land borders with the Republic of Benin in the west, Chad and Cameroon in the east, and Niger in the north.

#45. Who won the 2015 Nigerian presidential general election?

Answer: General Muhammadu Buhari

#46. Who is the current INEC chairman?

Answer: Mahmood Yakubu

#47. Who is the current NAFDAC Director General?

Answer: Mojisola Christianah Adeyeye

#48. Who is the current Inspector General of police?

Answer: Kayode Egbetokun.

#49. Current chairman of the African Union

Answer: Mohamed Ould Ghazouani

#50. Who is the secretary General of the united nations

Answer: Antonio Guterres

#51. Who is the current minister of education?

Answer: Prof. Tahir Mamman

ABOUT the First Primary school in Nigeria

The first educational system of Nigeria as a British colony started in Badagry where the first primary school was established by the Wesleyan mission (Methodist Church) in 1843 and named Nursery of Infant Church which later became St. Thomas' Anglican Nursery and Primary School, founded by Rev. Golmer of the Church Missionary Society (CMS) in 1845

THE first FEMALE Governor in Nigeria

Dame Virginia Ngozi Etiaba was the Governor of Anambra State, a state in south-east Nigeria, from November 2006 to February 2007. She is the first female governor in Nigeria's history. Her instatement came as the previous governor, **Peter Obi**, was impeached by the state legislature for alleged gross misconduct.

The first female president in the world

Sirimavo Ratwatte Dias Bandaranaike, who was elected Prime Minister of Sri Lanka in 1960 the first elected female head of state in Africa Ellen Johnson Sirleaf 2006. Liberia

The Nigeria civil War started and Ended when? Answer: July 6, 1967 – January 15, 1970

ABOUT Football

FIFA Headquarters is located at? xeera.ng Zürich, Switzerland

2011 World Best Player Lionel Mess

Host of FIFA world cup

Year	Host	Continent
2010	South Africa	Africa
2014	Brazil	South America
2018	Russia	Europe
2022	Qatar	Asia

OLYMPIC Game Host cities

1984 - Los Angeles, United States

1988 - Seoul, South Korea

1992 - Barcelona, Spain

1996 - Atlanta, United States

2000 - Sydney, Australia

2004 - Athens, Greece

2008 - Beijing, China

2012 - London, United Kingdom

2016 - Rio de Janeiro, Brazil

2020 - Tokyo, Japan

Which country hosted the first morden Day Olympic?

Answer: The first modern Olympic Games are held in Athens, Greece. On April 6, 1896

WHO is the Current IAAF chairman?

Answer: Sebastian Coe

IAAF--International Association of Athletics Federations

The First Civilian Governor of Rivers state Answer: **Melford Okilo** October 1979

First Military Governor of Rivers state Answer: **Alfred Diete-Spiff** 28 May 1967

When was Police established in Nigeria

Answer: 1820.

The first person to have the highest rank in all the police is commissioner general colonel KK.

In **1879** a **1,200**-member armed paramilitary Hausa Constabulary was formed.

In 1896 the Lagos Police was established. xeera.ng

What is the Biggest River in Africa Answer: River Nile 4,258 miles

This 'Y' SYMBOL represent the two main rivers flowing through Nigeria:

which are the two popular rivers known as:

River Niger and River Benue.

The yellow flower at the base of the Coat of arm are <u>Costus spectabilis</u>, which is Nigeria's national flower.

The flag of Nigeria was designed in 1959 and first officially hosted on 1st October 1960. (which is Nigeria National Independent Day)

The green bands represent the forests and abundant natural wealth of Nigeria while the White band stands for peace.

However, what you should know is that, the designer of the flag was a student from IBADAN, Micheal Taiwo Akinkunmi.

THE HISTORY AND PAST LEADERS IN NIGERIA.

Nigeria is a country which has the highest population in Africa continent. Which is proved by the 21st to 25th March, 2006 population census.

Nigeria's population was estimated to be about 140,000,000 people. (One hundred and forty Million)

Currently, Nigeria is made up of 36 STATES and the Federal Capital Territory (FCT). With 109 senatorial districts, 360 federal constituencies, 990 state constituencies, 774 local governments, 8810 wards.

This are the names of Nigeria former colonial masters. They are,
Sir Frederick Lord Lugard,
who ruled from 1900 to 1919.

Sir Hugh Clifford, Who ruled from 1919 to 1925.

Sir Creamer Thompson, who ruled from 1925 to 1931.

<u>Sir Donald Cameroon</u>, who ruled from 1931 to 1935.

Sir Bernard Bourdilion. who ruled from 1935 to 1943.

Sir Anthony Richard. Who ruled from 1943to 1948.

xeera.ng

Sir John McPherson.
Who ruled from 1948 to 1958.

Sir James Robertson. Who ruled from 1958 to 1960.

The first military head of state in Nigeria is: General Aguiyi Ironsi.

The first military president in Nigeria is: General Ibrahim Babangida.

#1. Mention the new service chiefs in Nigeria

Answer: Major General Chistopher Musa – Chief of Defence Staff (CDS)

Major General Taoreed Lagbaja – Chief of Army Staff (CAOS) Rear Admiral Emmanuel Ogalla – Chief of Naval Staff (CNS) Air Vice Marshal Hassa Abubakar – Chief of Air Staff (CAS)

Major General Emmanuel Unudiandeye – Chief of Defence Intelligence

DIG Kayode Egbetokun – Acting Inspector – General of Police

Mallam Nuhu Ribadu - National Security Adviser

#8. Mention five rivers in Nigeria that share their names with a state.

Answer: Rivers- Benue, Niger, Osun, Kaduna, Ogun, Sokoto, Cross River, Imo

#13. Mention 5 past senate presidents of Nigeria.

Answer: Dr Nnamdi Azikiwe, Evan Enwerem, Chuba Okadigbo, Anyim Pius Anyim, Adolphus Wabara, Ken Nnamani, David Mark

#18. Who is the current minister of finance?

Answer: Wale Edun

#19. Who is the current minister of defence?
Answer: Alhaji Mohammed Badaru Abubakar

#22. Who is the current minister of FCT?

Answer: Nyesom Wike Xeera.ng

#27. Which country won the last world cup?

Answer: Argentina

#31. Who is the current CBN Governor?

Answer: Olayemi Cardoso

#35. Who is the minister for petroleum resources in Nigeria?

Answer: President Bola Ahmed Tinubu

#37. When was the Nigerian Naira introduced?

Answer: 1st January 1973