

# PAST QUESTIONS AND ANSWERS SAMPLE

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- theory is the determination of: A. 72.0g B. 36.0g C. 16.0g D. 8.0g
12. Millikan's contribution to the development of atomic theory is the determination of: A. positive rays B. Cathode rays C. charge to mass ratio D. charge on electron.
  13. A particle that contains 9 protons, 10 neutrons and 10 electrons is A. positive ion B. neutral atom of a metal C. neutral atom of a non-metal D. negative ion.
  14. The oxide  $XO_2$  has a vapour density of 32. What is the atomic mass of X? A. 20 B. 32 C. 14 D. 12.
  15. During the vulcanization of rubber, sulphur is added to: A. lengthen the chain of rubber B. break down rubber polymer. C. act as catalyst D. bind rubber molecules together.
  16. A little quantity of trichloromethane (b. pt  $6^\circ\text{C}$ ) was added to a large quantity of ethanol (b.pt  $87^\circ\text{C}$ ). The most probable boiling point of the resultant is mixture from: A.  $69^\circ\text{C}$ - $70^\circ\text{C}$  B.  $820^\circ\text{C}$ - $840^\circ\text{C}$  C.  $60^\circ\text{C}$ - $78^\circ\text{C}$  D.  $70^\circ\text{C}$ - $74^\circ\text{C}$ .
  17. The chromatographic separation of ink is based on the ability of the compound to: A. react with each other B. React with the solvent C. dissolve in each other in the column D. move at different speeds in the column.
  18. Steam changes the colour of anhydrous cobalt (III) chloride from: A. white to red B. blue to white C. white to green D. blue to pink.
  19.  $25\text{cm}^3$  of a  $0.2\text{mol dm}^{-3}$  solution of  $\text{Na}_2\text{CO}_3$  requires  $20\text{cm}^3$  of solution of HCl for neutralization. The concentration of HCl solution is: A.  $0.6\text{mol dm}^{-3}$  B.  $0.5\text{mol dm}^{-3}$  C.  $0.4\text{mol dm}^{-3}$  D.  $0.2\text{mol dm}^{-3}$ .
  20. If 0.75 mole of cyclopropane and 0.66 mole of oxygen are mixed in a vessel with a total pressure of 0.7 atmosphere, what is the partial pressure of oxygen in the mixture? A. 0.55atm B. 0.44atm C. 0.22atm
  21.  $3\text{Cu} + \text{pHNO}_3 \rightarrow 3\text{Cu}(\text{NO}_3)_2 + 4\text{H}_2\text{O} + \text{xNO}$ . In the equation, the value of p and x respectively are: A. 8 and 2 B. 6 and 2 C. 2 and 3 D. 1 and 3.
  22. The filter in a cigarette reduces the nicotine content by: A. adsorption B. absorption C. Burning D. evaporation.
  23. When sugar is dissolved in tea, the reaction is always accompanied by: A. a minimum entropy change B. no entropy change C. positive entropy change D. negative entropy change.
  24. Which of the following is an electrolyte? A. Mercury B. Alcohol C. Sodium acetate solution D. Solid potassium hydroxide.
  25. The commonest reaction at the anode is that: A. Electrode dissolves B. Electrons are consumed C. Oxidation is involved D. Ions are reduced
- Answers**

ANAMBRA STATE UNIVERSITY  
2013/2014 POSTUME 1<sup>ST</sup> CHOICE TEST  
MORNING PAPER  
ENGLISH LANGUAGE.  
CANDIDATES FOR ENGLISH  
LANGUAGE MUST ATTEMPT  
QUESTIONS ON ENGLISH LANGUAGE,  
ENGLISH LITERATURE AND ANY  
OTHER TWO SUBJECTS. ALL MUST BE  
PROVIDED ON THE SHEETS

TIME:

In question i-v choose the option nearest in meaning to the italicized.

- i. It is usually hard to change the course of action when one stresses

the rubicon. (a) passes through a place called rubicon (b) crosses a river called rubicon (c) crosses a bridge called rubicon (d) passes a special test (e) is irrevocably committed.

ii. The sales man tried to pull the wood over my eyes. (a) force me to by his goods (b) offer me cotton wool (c) make me buy his wool (d) dupe me (e) cover my eyes with wool.

iii. Solo has resigned his job with the textile mills. He doesn't seem to worry about getting another job. his plans are still quite in the air. (a) animal (b) airtight (c) uncertain (d) certain (e) airborne.

iv. The legislator has decided to play second fiddle after he had been walked out of the Assembly for violating basic procedures of the house. (a) oppose every motion in the house (b) support every motion in the house (c) condemn every motion (d) support the given by others (c) become active in the house.

v. Old customs die hard. (a) cause a lot of hardship and death (b) must be stopped (c) never die out (d) cause hardship for younger people (e) end to last long time.

In question vi-x choose the expression or word best completes each sentence.

Vi. The young lady decided to .....(a) do away with the many advices given by her relatives (b) reject all advantages given by her relatives (c) reject all the advice given by her relations (d) take to all advices given by her relations (e) reject all the advice given by her relatives.

Vii. Two ministers found it difficult to

get .....(a) through with each other in the Cabinet (b) by with one another (c) through with one another (d) off from each other (e) on with each other.

Viii. the proprietors should be for such deplorable condition in the hospitals.....(a) isn't it? (b) shouldn't they? (c) should they? (d) is it? (e) shouldn't it?

ix. The university Board has placed an order for.....(a) all the furniture's and equipments required in the new development (b) all the furniture and equipment required in the new school (c) all of furniture and equipments required in the new schools (d) many of the furnitures and equipment required in the new schools (e) many of the furnitures and equipments required in the new schools.

x. The problems of Nigeria's worsening economy seem to have.....an immediate solution. (a) defend (b) defied (c) rejected (d) rewarded (e) retained.

In question xvi-xx which of the options express the same idea as the one in quotes?

xi. (a) disappointed (b) embarrassed (c) equipped (d) rhythm (e) restaurant.

xii. (a) occurrences (b) surprise (c) personnel (d) posses (e) curiosity.

xiii. (a) quiet (b) believe (c) proceed (d) preceed (e) opportunity.

Xiv (answer (b) pretence (likeness (d) likeness (e) precept

Xv (a) pigment (b) praxis (c) except (d) thought (e) exemplary.

In questions xvi-xx which of the options express the same idea as the one in quotes?

xvi. "To beat down the price "is to (a) flog the price (b) reduce the price (c) beat the salesman (d) attack the seller (e) control the price.



- xvii. "An open secret" means (a) a fact that is very secret (b) an open matter (c) a secret known to everybody (d) a confidential matter (e) a secret told in the open air.
- xviii. "To put something aside" is to be (a) put it by one's side (b) put it in a side pocket for future use (c) keep something for a special purpose (d) keep in safety (e) protect it.
- xix. "To be in the red" is to be (a) in debt (b) rich (c) a socialist (d) red (e) dressed in red.
- xx. "To ask after a friend" is to (a) ask questions about the friend (b) inquire about a friend's welfare (c) go after the friend (d) like the friend (e) take after the friend.

Fill in the blank spaces with the most appropriate of options a-e.

- xxi. By next June he..... Four novels.  
(a) will write (b) is writing (c) will have written (d) had written (e) has written
- xxii. Do come tonight, but don't expect me to speak to you because I.....  
An interesting programme on television when you arrive. (a) am watching (b) watch (c) watched (d) shall be watching (e) have watched.
- xxiii. What made you..... that? (a) have said (b) to say (c) saying (d) said (e) say.
- xxiv. Mikel, who plays in the first eleven, is an expert..... dribbling (a) for (b) by (c) at (d) with (e) on.
- xxv. His English is good that he..... for an Englishman (a) took (b) is taken (c) was taken (d) has taken (e) is taking.

i.e ii.d iii.d iv.d v.e vi.e vii.e viii.e ix.b x.a  
xi.b xii.a xiii.d xiv.d xv.d xvi.b xvii.c xviii.c  
xix.a xx.b xxi.c xxii.d xxiii.e xxiv.c xxv.c

### Physics option (morning)

1. A lead bullet of mass 0.05kg is fired with velocity of 200m/s into a lead block of mass 0.9kg. Given that the

lead block can move freely. The final kinetic energy after impact is (a) 50J, (b) 100J (c) 150J (d) 200J.

2. A ball of mass 0.1kg is thrown vertically upwards with a speed of 10ms<sup>-1</sup> from the top of a tower 10m high. Neglecting air resistance, its total energy developed hitting the ground is, (a) 5J (b) 10J (c) 15J (d) 20J (e) g=10ms<sup>-2</sup>.

3. A car of mass 800kg attains a speed of 25m/s in 20seconds. The power developed in the engine is. (a)  $1.25 \times 10^4$ W (b)  $2.50 \times 10^4$ W (c)  $1.25 \times 10^6$ W (d)  $2.50 \times 10^6$ W.

4. When the brakes in a car are applied, the frictional force on the tyres is: (a) disadvantages because it is in the opposite direction of motion of the car (b) a disadvantage because it is in the direction of motion of the car (c) an advantage because it is in the direction of motion of the car (d) an advantage because it is in the opposite direction of the motion of the car.

5. If the stress in wire is  $10^7$  Nm<sup>2</sup> and the wire is stretched from its original length of 10.00cm to 10.05cm. The Young's modulus of the wire is: (a)  $5.0 \times 10^4$  Nm<sup>2</sup> (b)  $2.0 \times 10^5$  Nm<sup>2</sup> (c)  $2.0 \times 10^5$  Nm<sup>2</sup> (d)  $2.0 \times 10^6$  Nm<sup>2</sup>.

6. A solid weighs 10.0 N in air, 6.0N when fully immersed in water and 7.0 N when fully immersed in certain liquid X calculate the relative density of the liquid (a) 5/3 (b) 4/3 (c) 3/4 (d) 7/10

7. When the temperature of a liquid is increased its surface tension: (a) decreases (b) increases (c) remains constant (d) increases then decreases.

8. If a spherical metal bob of radius 3cm is fully immersed in a cylinder containing water and the water level

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