



# PrepsNG

## *Learning Center*

# UNIVERSITY OF NNAMDI AZIKIWE

POST UTME PAST QUESTIONS FOR MEDICAL FACULTIES

# UNIZIK POST-UTME PAST QUESTIONS FOR ALL MEDICAL FACULTIES & AGRICULTURAL SCIENCE

## 2006/2007 UNIZIK POST UTME QUESTIONS

**Time Allowed:** 1 Hour

**Choose the option that best conveys the meaning of the underlined portion in each of the following sentences**

1. In the match against the Rangers team, the Enyimba boys turned out to be the dark horse.

- A. played most brilliantly
- B. played their usual form
- C. won unexpectedly
- D. lost as expected
- E. won as expected

2. He spoke with his heart in his mouth.

- A. courageously
- B. With such unusual cowardice
- C. with a lot of confusion in his speech
- D. without being able to make up his mind
- E. with fright and agitation

3. The leader in today's issue of punch Newspaper focuses on inflation.

- A. president
- B. headline
- C. editorial
- D. columnist
- E. proprietor

4. All his plans fall through.

- A. failed
- B. were accomplished
- C. had to be reviewed
- D. were rejected
- E. fell

5. He stared at her.

- A. glanced
- C. looked
- D. gazed
- E. fixed

6. As he was a gullible leader, his followers took advantage of him,

- A. He was weak and unable to enforce his authority
- B. He was partial and unfair in dispensing Justice
- C. He was simple minded to a fault
- D. He was slow to act
- E. He was lacking in education and experience in everyday affairs.

7. His summary of the lecture was brief and to the point.

- A. careful
- B. precise
- C. accurate
- D. exact
- E. crucial

8. Do you have the same aversion as I do for home videos?

- A. bitterness
- B. dislike
- C. criticism
- D. indignation
- E. reference

9. I did not think she could be so easily taken in by his pretences.

- A. flattered
- B. deceived
- C. pregnated
- D. overcome
- E. black mailed

10. The witness was guilty of swearing to a statement he knew to be false.

- A. forgery
- B. perjury
- C. libel
- D. slander
- E. affidavit

11. Most of his observations were wide of the mark.

- A. comprehensive
- B. irrelevant
- C. pertinent
- D. came rather late
- E. unacceptable

12. The clerk refused to answer for the mistakes made by the manager and his assistants.

- A. to reply
- B. to give an answer
- C. to explain
- D. to responsibility
- E. to account for

13. Good citizens should take the part of a good government when it is being attacked by the foreign press.

- A. speak in support of
- B. played by
- C. act like a representative of
- D. emphasize the progress made by
- E. outlined the virtues of

14. The principal of my school has a variety of peculiarities, the, most conspicuous is the way he gesticulates when making a serious point.

- A. show anxiety when making a serious point
- B. breaks down when talking seriously
- C. uses his hands and arms as a sign
- D. bows his head in humility
- E. shakes his head from on

15. He heard the loud noise of the huge air-raid siren.

- A. buzz
- B. crack
- C. rumble
- D. whistle
- E. wait

16. One of the stages of the creative process is the incubation period. This refers to the period when\_\_\_\_\_.

- A. the idea is firmly fixed through repetition
- B. the person suddenly comes upon the idea
- C. the person thinks over the idea
- D. the idea yields concrete results
- E. the idea is given up

17. When a man is immune to an illness, he is\_\_\_\_\_.

- A. opposed to it
- B. attached to it
- C. hated by it
- D. protected against it
- E. addicted to it.

18. The two boxers were neck and neck up all the sixth round but the seventh and final round, the bigger one lost ground.

- A. could no longer stand on his feet
- B. failed to maintain his position
- C. was beaten
- D. became dizzy
- E. became a punching bag

19. He uses his savings to bring up his nephew.

- A. lead
- B. accompany
- C. feed
- D. support
- E. conduct

20. Whenever I travel abroad, I always bring, on my return, photographs, post cards and small items as souvenirs

- A. 'mementoes
- B. remembrance
- C. memorials
- D. memorable
- E. property

Complete each of the following sentences by choosing the option that most suitably fills the space

21. When the beggar was tired, he \_\_\_\_\_down by the roadside.

- A. lied
- B. laid
- C. layed
- D. lay
- E. lain

22. He did not like \_\_\_\_\_leaving the class early.

- A. we
- B. us
- C. our
- D. our selves

23. Before the operation, the dentist found that his patient's teeth\_\_\_\_\_.

- A. have long decayed
- B. have long been decayed
- C. have long being decayed
- D. had long decayed
- E. had been decayed

24. The employer, not the salesman and his representative, \_\_\_\_\_ responsible for the loss of revenue.

- A. are is
- B. are being
- C. are never
- D. is

25. The boy was horn before his parent, actually got married and so the court has declared him\_\_\_\_\_.

- A. illegal
- C. illicit
- D. unlawful
- E. untenable

26. As he was still owing me two naira, I was careful not to \_\_\_\_\_him any more money.

- A. credit
- B. loan
- C. borrow
- D. extend
- E. lend

27. Last week the \_\_\_\_\_at the theatre was the largest I had ever seen.

- A. assembly
- B. congregation
- C. convention
- D. audience
- E. crowd

28. The green snake which lives in green grass is using a perfect\_\_\_\_\_.

- A. ambush
- B. undercover
- C. camouflage
- D. shelter
- E. subterfuge

29. In order to carry out the necessary post mortem examination, the dead body was\_\_\_\_\_.

- A. extracted
- B. extradited
- C. exiled
- D. exhumed
- E. expelled

30. Remember this matter is strictly \_\_\_\_\_.

- A. between you and I
- B. among you and I
- C. among you and me

D. between you and me

E. between you and myself

31. Equilibrium is said to be attained in a reversible reaction when\_\_\_\_\_.

- A. all the reactants have been used up
- B. all the products have been formed
- C. there is no further change in temperature
- D. the rates of the forward and backward reactions are equal
- E. the rates of formation the products decrease with time

32. Bubbling of carbon (iv) oxide into calcium hydroxide solution results in formation of\_\_\_\_\_.

- A. CaO
- B. Ca(OH)<sub>2</sub>
- C. CaCO<sub>3</sub>
- D. Ca(HO<sub>3</sub>)<sub>2</sub>
- E. H<sub>2</sub>CO<sub>3</sub>

33. If 3 mole electrons arc required to deposit 1 mole of metal M during the electrolysis of its molten chloride, the empirical formula of the metallic chloride is:

- A. M<sub>3</sub>Cl
- B. M<sub>3</sub>Cl<sub>2</sub>
- C. MCl
- D. M<sub>2</sub>Cl
- C. MCl<sub>3</sub>

34. Which of the following compounds crystallizes without water of crystallization?

- A. Na<sub>2</sub>O<sub>3</sub>
- B. CuSO<sub>4</sub>
- C. MgSO<sub>4</sub>
- D. NaCl
- E. FeSO<sub>4</sub>

35. When starch undergoes complete enzyme catalysed hydrolysis, the resulting product is\_\_\_\_\_.

- A. glucose
- B. maltose
- C. sucrose
- D. fructose
- E. cellulose

36. When steam is passed over white-hot coke the products are\_\_\_\_\_.

- A. carbon (iv) and nitrogen
- B. carbon (iv) oxide and hydrogen

- C. carbon (ii) oxide and nitrogen
- D. carbon (iv) oxide and hydrogen
- E. carbon (iv) oxide and steam

37. Which of the following compounds will not decomposed when heated strongly?

- A.  $\text{NaHCO}_3$
- B.  $\text{K}_2\text{CO}_3$
- C.  $\text{MgCO}_3$
- D.  $\text{Ca}(\text{HCO}_3)_2$
- E.  $\text{ZnCO}_3$

38. The rate of a reaction is proportional to the number of effective collisions occurring per second between the particles. This statement is associated

- A. kinetic theory
- B. molecular theory
- C. atomic theory
- D. collision theory
- E. gas laws

39. How many faradays of electricity are required to liberate 9g of aluminium? (Al=27).

- A. 0, 1
- B. 0.3
- C. 1.0
- D. 2.7
- E. 3.0

40. Which of the following metals will be the most suitable for use where lightness and resistance to corrosion are of importance?

- A. lead
- B. copper
- C. iron
- D. calcium
- E. aluminium

41. If you cross-breed a tall variety (Tt) of maize with a short variety (tt) the ratio of tall to short plants in the offspring will be\_\_\_\_\_.

- A. 2:1
- B. 12
- C. 1:1
- D. 1:3

42. Euglena may be classified as a plant because\_\_\_\_\_.

- A. has chloroplast
- B. has a gullet

- C. lives in a pond
- D. possesses a flagellum
- E. has a pellicle

43. When proteins are broken down, they also provide\_\_\_\_\_.

- A. oxygen
- B. carbohydrates
- C. energy
- D. amino acids
- E. carbon dioxide

44. Which of these obtain from analysing sweat from the skin is not an excretory product?

- A. water
- B. salt
- C. dust
- D. urea
- E. urates

45. The centre which controls respiratory activities in the mammalian brain is the\_\_\_\_\_.

## ANSWERS TO 2006/2007 UNIZIK QUESTIONS

1. C 2. E 3. C 4. A 5. D 6. C 7. B 8. B 9. B  
10. B 11. B 12. D 13. A 14. C 15. D 16. C  
17. D 18. C 19. D 20. A 21. D 22. C 23. D  
24. E 25. B 26. E 27. D 28. C 29. D 30. D  
31. D 32. C 33. E 34. D 35. A 36. D 37. B  
38. D 39. C 40. E 41. C 42. A 43. C 44. C  
45. E

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# 2008/2009 UNIZIK POST UTME QUESTIONS

**Shade (firmly) only one answer using HB pencil only**

**Time Allowed:** 1 Hour

**Choose the Opposite in meaning to the word(s) or phrase(s) underlined.**

- The government is making **concerted** effort in providing essential social facilities in the rural areas.
  - dissipated
  - unconcerned
  - unsuccessful
  - uncontrolled
- The western allies frowned at their enemies **indiscriminate** bombing of their territory.
  - impartial
  - selective
  - unprovoked
  - divide
- The girl is very intelligent but her jokes are rather **outrageous**.
  - offensive
  - courageous
  - pleasant
  - unwholesome
- We cannot but talk about his **invaluable** contributions to the affairs of the society.
  - worthless
  - costly
  - unrecognized
  - incalculable
- This average fertility figure of course **conceals** wide individual variations among the people.
  - attracts
  - covers
  - exposes
  - concludes
- Men living in an **extended** family know that they have to be responsible for the welfare of some other person's children.

- extensive
- nuclear
- neutral
- contracted

7. The appearance of the pall-bearers was extremely **facilitating**.

- magnetic
- unorganized
- interesting
- repulsive

8. Many miners protested against the order to **match** into the coal pits.

- strut
- amble
- trudge
- ramble

9. The nasty action will bring nothing but **discredit** to them.

- honour
- share
- reward
- disgrace

10. The man's health has **deteriorated** in the hospital.

- collapsed
- improved
- worsened
- revive

**Choose the nearest in meaning to the word(s) or Phrase(s) underlined.**

11. The boss made a **clean sweep** all the hands in the office.

- Completely got rid
- clearly swept the office
- made a quick change
- made an adjustment

12. His anxiety was **apparent** to every present in the ceremony.

- real
- visible
- transparent
- unknown.



13. Our experience on board the aircraft was **nothing to write home about**.

- A. not remarkable
- B. not unpleasant
- C. nobody's business
- D. not home affair

14. The rampage was organized and directed by the **militant ones** among the students.

- A. soldier
- B. rebellious ones
- C. belligerent ones
- D. commanders

15. The governor advised his people **to get off the beaten tracks** in their approach to community matters.

- A. use the old roads
- B. make the tracks better
- C. find new ways
- D. avoid beaten about the bush

16. It was their custom to **keep an open house** on Sundays.

- A. welcome all visitors
- B. keep the shutters
- C. leave the house open
- D. exposes the whole house

17. The president made a **passionate** appeal for calm.

- A. inflamed
- B. disturbing
- C. intense
- D. lively

18. Dauda stole the day **takings** from the bakery excitement.

- A. receipt
- B. collections
- C. contributions
- D. offering

19. You do not need **to stutter** to show your excitement.

- A. Jump about
- B. shout
- C. sob
- D. stammer

20. What embarrassed me is the **stealthy** way in which the new servant goes about his duties in this house.

- A. indolent
- B. furtive
- C. boisterous
- D. agile

21. The way he handled the whole issue was rather **despicable**.

- A. disturbing
- B. likeable
- C. contemptible
- D. frustrating

22. The **authenticity** of the reporter's claim should be established before taking further actions on the matter.

- A. facts
- B. source
- C. evidence
- D. genuineness

23. After careful investigation the police found no **iota of truth** in Abraham's allegation.

- A. quota
- B. grain
- C. evidence
- D. statement

24. The Case was thrown out because the Court lacked **jurisdiction**.

- A. juror to help the judge
- B. authority
- C. prosecutors
- D. appellate powers

25. The chief will **launch** the fund-raising appeal.

- A. make a speech at
- B. eat his afternoon meal during
- C. travel by boat to
- D. start off

26. Okeke has been employed but he is unhappy because it is **a run of in his mill job**.

- A. a boring
- B. a poor paying
- C. a tiring
- D. an ordinary

27. I would like to believe that this brilliant performance of yours is not just **a flash in the pan**.

- A. repeated occurrence

- B. normal happening
- C. flashy happening
- D. chance occurrence

28. As the wedding day approached the bride began **develop cold feet**.

- A. Fall sick
- B. feel cold
- C. be reluctant
- D. become aggressive

29. I told my brother to get the **matter off his chest** as soon as possible.

- A. give serious thought to the matter
- B. say what he has been anxious to say
- C. make brief comment
- D. state his points clearly

30. He has a **big heart** but he is inept at following a witty conversation.

- A. Large
- B. huge
- C. warm
- D. fragile

31. The clerk refused to **answer for** mistakes made by the manager and his assistances.

- A. reply to
- B. give an answer
- C. accept responsibility for
- D. account for

32. Most of his observations **were wide of the mark**.

- A. comprehensible
- B. irrelevant
- E. pertinent
- D. unacceptable

33. I didn't think she could be so easily **taken** by his pretences.

- A. flatter
- B. impregnated
- C. deceived
- D. overcome

34. Do you have the same **aversion** as I do for war films.

- A. bitterness
- B. dislike
- C. criticism
- D. preference

35. His summary of the meeting was **brief and to the point**.

- A. precise
- B. accurate
- C. exact
- D. crucial

36. The minister **hit on a plan** to retain his post after many months of lobbying.

- A. drew up a plan
- B. discover a plan
- C. plan selected
- D. designed a plan

37. My friend will hate his uncle forever because he **left him in lurch** in his hour of need.

- A. Abandoned him
- B. punished him
- C. disinherited him
- D. despised him

38. Our school perfect is **officious** and we all halt him because of his behaviour.

- A. efficient
- B. efficacious
- C. over-zealous
- D. active

**Choose the word/expression complete search sentence**

39. He regarded the betrayal of his friend as a stab \_\_\_\_\_the back.

- A. on
- B. at
- C. in
- D. from

40. Our manager has instructed that \_\_\_\_\_of customers must be barred from our bank.

- A. those type
- B. that type
- C. that types
- D. this types

41. He was not a very \_\_\_\_\_student when I first met him but the year \_\_\_\_\_his character ultimately.

- A. mature/mature
- B. matured/mature
- C. mature/matured
- D. matured/matured



42. Because of the \_\_\_\_\_ he did to my car, I am going to sue him for \_\_\_\_\_.
- damage/damages
  - damages/damage
  - damages/damages
  - damage/damage
43. Although I am watching television, I \_\_\_\_\_ what you are saying.
- Am hearing
  - can hear
  - have heard
  - was hearing
44. One of the rioters who \_\_\_\_\_ arrested yesterday released.
- was/had been
  - were/have been
  - was/have been
  - were/has been
45. The teacher invited Ifeanyi and \_\_\_\_\_ to his office.
- myself
  - me
  - I
  - himself
46. Joseph and his wife are always fighting. The \_\_\_\_\_ to be drawn from this is that they are not happy together.
- reference
  - inference
  - difference
  - deference
47. The government has provided new \_\_\_\_\_ for the local government polls.
- guard lines
  - Guide lines
  - guardlines
  - guidelines
48. The manager was angry with Okoye for \_\_\_\_\_ seeds of discord among the workers.
- planting
  - sewing
  - cultivating
  - sowing

49. I looked for you all over the campus but I could not \_\_\_\_\_ you.
- Find
  - see
  - meet
  - catch
50. \_\_\_\_\_ is always superior to any other in town.
- there's
  - their
  - their's
  - there
51. Two radioactive elements A and B have half-lives 100 and 50 years, respectively. Samples of A and of D ration of the number of the remaining atoms of A to initially contain equal number of atoms. What is the that of B after 200 years
- 4:1
  - 2:1
  - 1:1
  - 1:4
52. A boy standing some distance from the foot of tall cliff claps his hands and hears echo 0.5s later. if the speed of sound is 340m/s. how far is he from the cliff?
- 17m
  - 34m
  - 85m
  - 170m
53. Which of the following is not correct about isotopes of an element? They have \_\_\_\_\_.
- the same neutron number
  - the same proton number
  - the same of electrons
  - different physical properties
54. Which of the following is not an electromagnetic radiation?
- X-ray
  - radio waves
  - sunlight
  - sound waves
55. Cloud formation is the direct result of \_\_\_\_\_.
- precipitation
  - vaporization

- C. condensation
- D. sublimation

56. Water boils at a lower temperature when heated at the top of a mountain than at sea level because at the top of the mountain the\_\_\_\_\_.

- A. saturation vapor pressure of water is high than at sea level
- B. sun adds more heat to the water
- C. relative humidity of the atmosphere is lower
- D. pressure of the atmosphere is lower

57. The main reason why rice cooks faster in a pressure cooker than cooking pot is that \_\_\_\_\_.

- A. less heat escapes from the cooker
- B. the vapor pressure in the cooker is constant
- C. the boiling point of water in the cooker is raised
- D. the vapor pressure in the cooker decrease

58. In which of the following media would sound waves travel faster?

- A. kerosene
- B. alcohol
- C. iron
- D. air

59. Which of the following phenomena is a practical evidence for the existence of the continual motion of molecules?

- A. Translational motion
- B. rotational motion
- C. Brownian motion
- D. oscillatory motion

60. Each of the following physical quantities classified as a vector or as a scalar quantity. Which of the classifications is correct?

- A. electric potential (vector)
- B. momentum (scar)
- C. gravitational field intensity (scalar)
- D. magnetic flux density (vector)

61. The friction which exists between the layers of liquid in relative motion is called\_\_\_\_\_.

- A. capillarity
- B. surface tension

- C. viscosity
- D. cohesion

62. Which of the following, simple machines is a second class?

- A. Wheel barrow
- B. crowbar
- C. claw hammer
- D. seesaw

63. Which of the following undergo when types of motion do a body acted upon by a couple?

- A. Vibration
- B. Transactional
- C. Rotational
- D. Random

64. The frequency of a swinging pendulum is the\_\_\_\_\_.

- A. number of complete oscillations the pendulum makes in one second
- B. number of amplitudes makes in one second
- C. angle the bob swings through in one second
- D. distance the bob covers in one second

65. Which of the following quantities has the same unit as energy?

- A. power
- B. work
- C. force
- D. momentum

66. Which of the methods can be used to separate a mixture of two miscible with different boiling points?

- A. decantation
- B. distillation
- C. evaporation
- D. filtration

67. Pig iron is brittle because contains

- A. a high percentage of carbon as impurity
- B. calcium trioxosilicate(IV)
- C. unreacted haematite
- D. undecomposed limestone

68. Which of these metals will not liberate hydrogen from dilute HCl?

- A. copper
- B. iron

- C. magnesium  
D. zinc

69. Radium is used as a tracer in medical research because it\_\_\_\_\_.

- A. is monatomic  
B. is radioactive  
C. is a noble gas  
D. has complete valence shell

70. In linear molecules, the bond angles is\_\_\_\_\_.

- A.  $90^\circ$   
B.  $140^\circ$   
C.  $180^\circ$   
D.  $120^\circ$

71. A sodium atom and a sodium ion has the same\_\_\_\_\_.

- A. number of neutrons  
B. number of electrons  
C. electric charge  
D. chemical properties

72. An increase in the pressure of gas result in a decrease in its\_\_\_\_\_.

- A. mass  
B. vapor density  
C. volume  
D. temperature

73. An acid is a substance which in the presence of water produces

- A. salts  
B. oxygen  
C. hydroxonium  
D. effervescence

74. Which of the following is a general method of preparing acid?

- A. direct combination of constituent elements  
B. double decomposition involving a salt solution  
C. reaction between involves anhydride and water  
D. dissolution of hydroxides followed by neutralizations

75. Which of the following ions will migrate to the cathode during electrolysis?

- A. Zinc ion  
B. chloride ions

- C. sulphide ions  
D. tetraoxosulphate(vi) ions

76. What quantity of electrons (in mole) is lost when one mole of iron (II) ions is oxidized to iron (III) ions?

- A. 5 moles  
B. 4 moles  
C. 1 mole  
D. 3 moles

77. The common feature of reaction at the anode is that\_\_\_\_\_.

- A. electrons are consumed  
B. oxidation is involved  
C. ions are reduced electrode dissolves  
D. the electrode dissolve

78. Ethene undergoes mainly addition reaction because it is\_\_\_\_\_.

- A. a gas  
B. a hydrocarbon  
C. unsaturated  
D. a covalent compound

79. The position of equilibrium in a reversible reaction is affected by\_\_\_\_\_.

- A. particle size of the reactants  
B. change in concentration of the reactants  
C. presence of a catalyst  
D. change in size of the reaction vessel

80. The reaction between alkanolic acids and alkanols in the presence of a mineral acid is known as\_\_\_\_\_.

- A. saponification  
B. hydrolysis  
C. polymerization  
D. esterification

81. A fundamental similarity between nervous and hormonal system is that both\_\_\_\_\_.

- A. involves chemical transmission  
B. have widespread effects  
C. shed chemicals into the blood stream  
D. evoke rapid response

82. The irreversible life process by which new protoplasm is added to increase the size and weight of an organism can be termed\_\_\_\_\_.

- A. anabolism  
B. catabolism

- C. growth
- D. development

83. If an organism obtains its food by means haustoria, it is said to be\_\_\_\_\_.

- A. halophytic
- B. heterophytic
- C. saprophytic
- D. parasite

84. The main waste product formed in plants are\_\_\_\_\_.

- A. alkaloids, tannins and resins
- B. water, alkaloids and carbon dioxide
- C. oxygen, carbon dioxide and alkaloids
- D. water, carbon dioxide and oxygen

85. In the mammalian respiratory system, exchange of gases occurs in the\_\_\_\_\_.

- A. lungs
- B. bronchi
- C. bronchioles
- D. alveoli

86. If the phloem of a healthy plant is killed by heat treatment, the\_\_\_\_\_.

- A. upward movement of salts will accumulate
- B. manufacture in the leaves will accumulate
- C. whole plant will die immediately
- D. leaves of the plants will become yellow

87. If an animal has diastema, it would not possess\_\_\_\_\_.

- A. incisors
- B. canines
- C. premolars
- D. molars

88. The major function of the swim bladder in fishes is\_\_\_\_\_.

- A. breathing
- B. buoyancy
- C. swimming
- D. diving

89. Insects and millipede have many features in common except\_\_\_\_\_.

- A. jointed appendages
- B. compound eyes
- C. segmented body
- D. exoskeleton

90. What is the function of trichocytes in paramecium?

- A. Movement
- B. defence
- C. excretion
- D. reproduction

91. The sum of the angles of regular polygon is  $2520^\circ$ . How many sides the polygon have\_\_\_\_\_.

- A. 20
- B. 18
- C. 15
- D.16

92. If the exterior angles of a quadrilateral are  $y^\circ$ ,  $(2y+5)^\circ$ ,  $(y+15)^\circ$  and  $(3y-10)^\circ$ , find  $y^\circ$ .

- A. 61.43
- B. 60
- C. 51.43
- D. 50

93. Calculate the surface area of a sphere of radius 7cm {take  $\pi=\frac{22}{7}$ }

- A.  $86\text{cm}^2$
- B.  $154\text{ cm}^2$
- C.  $616\text{ cm}^2$
- D.  $1434\text{cm}^2$

94. If  $3\log a + 6\log a - 6\log a = \log 64$ , what is a?

- A. 4
- B. 6
- C. 8
- D. 16

95. The sales girl gave a change of ₦1.15 to a customer instead ₦1.25. calculate her percentage error

- A. 10%
- B. 2%
- C. 8%
- D. 0.8%

96. The ages of three men are in the ratio 3:4:5. If the difference between the ones of the oldest and younger is 18 years. Find the sum of the ages of the three men.

- A. 45 years
- B. 72 years
- C. 108 years
- D. 216 years

97. Which of the following number is a perfect cube?

- A. 350
- B. 504
- C. 950
- D. 1728

98. A car moves at an average speed of 30km/h. How long does it take to cover 200 meters?

- A. 2.4 sec
- B. 24 sec
- C. 144 sec
- D. 240 sec

99. If N varies directly as M. and  $N = 7$  When  $M=20$ . Find M when  $N=7$ .

- A. 13
- B. 15
- C.  $17 \frac{1}{2}$
- D.  $18 \frac{1}{2}$

100. Express 0.0462 in standard form

- A.  $0.462 \times 10^{-1}$
- B.  $0.462 \times 10^{-2}$
- C.  $4.62 \times 10^{-1}$
- D.  $4.62 \times 10^{-2}$

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## **ANSWERS 2008/2009 UNIZIK QUESTIONS**

1. A 2. B 3. C 4. D 5. C 6. B 7. B 8. D 9. A

10. B 11. A 12. B 13. A 14. B 15. C 16. A

17. C 18. B 19. D 20. B 21. C 22. D 23. C

24. B 25. D 26. B 27. D 28. C 29. B 30. C

31. C 32. B 33. C 34. B 35. A 36. B 37. A

38. C 39. C 40. A 41. C 42. A 43. B 44. A

45. B 46. B 47. D 48. D 49. A 60. C 51. A

52. C 53. A 54. D 55. C 56. D 57. C 58. C

59. C 60. D 61. C 62. A 63. C 64. A 65. B

66. B 67. A 68. B 69. B 70. C 71. A 72. C

73. C 74. C 75. A 76. C 77. B 78. C 79. B

80. D 81. B 82. C 83. D 84. A 85. D 86. B

87. B 88. B 89. D 90. B 91. D 92. D 93. C

94. C 95. C 96. C 97. D 98. B 99. C 100. D

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# 2010/2011 UNIZIK POST UTME QUESTIONS

Shade firmly only one answer using HB pencil only

Time Allowed: 1 Hour

Choose the word or group of words that is mostly nearly opposite in meaning to the underlined word(s).

- There is no doubt that **pride** is less a quality than \_\_\_\_\_.  
A. arrogance  
B. honesty  
C. efficiency  
D. humility
- Few people prefer the **rural** to the \_\_\_\_\_.  
A. modern  
B. urban  
C. pastoral  
D. rustic
- Dan is quite **refined** in his manners but his colleague is rather \_\_\_\_\_.  
A. arrogant  
B. crude  
C. cultured  
D. unskilled
- Instead of helping to **preserve** our culture, the youths engage in activities that \_\_\_\_\_.  
A. denounce  
B. alter  
C. conserve  
D. destroy
- We should regard donations as \_\_\_\_\_ and not **compulsory**.  
A. mandatory  
B. necessary  
C. voluntary  
D. obligation
- The affluence of the politicians contrast with the \_\_\_\_\_ of the masses.  
A. poverty  
B. paucity  
C. misery  
D. suffering

7. The importation of rice **permitted** while that of wheat is \_\_\_\_\_.

- allowed
- suspended
- inhibited
- prohibited

8. The goal scored in the second half of the match lifted the team from **agony** of defeat to \_\_\_\_\_ of victory.

- hope
- celebration
- ceremony
- ecstasy

9. One species of animal has gone into extinction while the other has \_\_\_\_\_.

- antiquity
- oblivion
- existence
- irrelevance

10. The council **ratified** the controversial recommendation which we thought would be \_\_\_\_\_.

- refuted
- rejected
- authenticated
- irrelevance

Choose the word that best complete each following statement

11. He was sent to remand home in the hope that the place would \_\_\_\_\_ him.

- amend
- improve
- reform
- remand

12. Since there is no further comments, the Chairman called for the \_\_\_\_\_ of the minutes of the last meeting.

- objection
- correction
- resolution
- adoption

13. There was a ten minute \_\_\_\_\_ during the stage performance of the play.



- A. interim
- B. interplay
- C. interlude
- D. intercession

14. The judge restrained the landlord from \_\_\_\_\_ the tenant.

- A. ejecting
- B. sacking
- C. dismissing
- D. attacking

15. The soldier pledge their \_\_\_\_\_ loyalty to their commander.

- A. divided
- B. unalloyed
- C. remarkable
- D. enormous

16. Many children are suffering from \_\_\_\_\_ because of poor feeding.

- A. meningitis
- B. maltreatment
- C. hepatitis
- D. malnutrition

17. The elders advised the priest to confine himself to his \_\_\_\_\_ duties.

- A. Sacrilegious
- B. pastoral
- E. angelic
- D. divine

18. The audience gave the actor a standing \_\_\_\_\_ for his beautiful performance.

- A. proclamation
- B. ovation
- C. clapping
- D. reward

19. If the costumer fails to honour his pledge again, his \_\_\_\_\_ will surely be in doubt.

- A. responsibility
- B. validity
- C. credulity
- D. credibility

20. The judge warned that he would not tolerate any interruption of the \_\_\_\_\_ of the court.

- A. proceeds
- B. deliberations

- C. proceedings
- D. arguments

21. Which of the following physical process cannot be explained by the molecular theory of matter?

- A. evaporation
- B. thermal conduction
- C. radiation of heat
- D. conventional currents in fluids

22. A spring balance, which is suspended from the roof of a lift, carries a mass 1 kg at its free end. If the lift accelerates upwards at  $2.5\text{ms}^{-2}$ , determine the reading on the spring balance ( $g=10\text{ms}^{-2}$ ).

- A. 25.0N
- B. 12.5N
- C. 7.5N
- D. 4.0N

23. An object of weight 10N immersed in a liquid displaces a quantity of the liquid. If the liquid displaced weighs 6N, determine the up thrust on the object.

- A. 20N
- B. 10N
- C. 6N
- D. 4N

24. A block weighing 15N rest on a flat surface and a horizontal force of 3N is exerted on it. Determine the frictional force on the block

- A. 0.3N
- B. 0.5N
- C. 3.0N
- D. 5.0N

25. The apparent weight of a body fully immersed in water is 32N and its weight is air is 96N, calculate the volume of the body (density of water =  $1000\text{kgm}^{-3}$ ;  $g=10\text{ms}^{-2}$ ).

- A.  $8.9 \times 10^{-3}\text{m}^3$
- B.  $6.4 \times 10^{-3}\text{m}^3$
- C.  $3.2 \times 10^{-3}\text{m}^3$
- D.  $3.0 \times 10^{-3}\text{m}^3$

26. Resistance of wire depends on \_\_\_\_\_.

- A. the length of the wire
- B. the diameter of the wire
- C. the temperature of the wire
- D. all of the above

27. Which of the following is a correct explanation of the inertia of the body?  
 A. reluctance to stop moving  
 B. ability to overcome the earth's gravity  
 C. reluctance to start moving and its reluctance to stop moving once it has begun to move  
 D. readiness to start moving

28. A device that converts sound energy into electrical energy is\_\_\_\_\_.  
 A. the horn of a motor car  
 B. an A.C generator  
 C. a microphone  
 D. a loudspeaker

29. What is the cost of running five 50w lamps and four 100W lamps for 10 hours if electrical energy cost 2 kobo per kwh?  
 A. ₦0.65  
 B. ₦0.13  
 C. ₦3.90  
 D. ₦1.30

30. Which of the following is NOT a fundamental S.I unit?  
 A. meter  
 B. Kelvin  
 C. ampere  
 D. radian

31. A simple pendulum with a period of 2.0s has its length double. Its new period is\_\_\_\_\_.  
 A. 1.00s  
 B. 28.3s  
 C. 1.83s  
 D. 0.35s

32. Which of the following phenomena cannot be explained by the molecular theory of matter?  
 A. expansion  
 B. conduction  
 C. radiation  
 D. evaporation

33. In a gas experiment, the pressure of the gas is plotted against the reciprocal of the volume of the gas at a constant temperature, the unit of the slope of resulting curve is\_\_\_\_\_.  
 A. force  
 B. force/m

C. work  
 D. energy/m<sup>2</sup>

34. Water shows anomalous behaviour\_\_\_\_.  
 A. below 0°C  
 B. between 0°C and 4°C  
 C. at exactly 4°C  
 D. above 100°C

35. A heavy object is suspended from a string and lowered into water so that it is completely submerged. The object appears lightly because\_\_\_\_\_.  
 A. the density of water is less than that of object  
 B. the pressure is low just below the water surface  
 C. it experiences an up thrust  
 D. the tension in the string neutralizes part the weight

36. Which of the following is a derived unit?  
 A. kilogramme  
 B. metre  
 C. Kelvin  
 D. Newton

37. A dentist obtains a linear magnification of 4 of a hole in a tooth by placing a concave mirror at a distance of 2.0cm from the tooth. The radius of curvature of the mirror is\_\_\_\_\_.  
 A. 5.3cm  
 B. 5.2cm  
 C. 2.8cm  
 D. 1.5cm

38. What is the effect of the increase in the size of the hole of a pin-hole camera on the image?  
 A. a blurred image  
 B. correct for chromatic aberration  
 C. magnifies the image  
 D. image

39. The mechanical advantages of an inclined plane depends on\_\_\_\_\_.  
 A. its length  
 B. its height  
 C. the ratio of its length to its height  
 D. the product of its length and height

40. A man walks 13k north and then 5km in a direction  $60^\circ$  east of north. Find the distance from his starting point.
- 11.36 km
  - 13.00 km
  - 12.3 km
  - 14.36 km
41. Glucose reduces Fehling's solution on warming to\_\_\_\_\_.
- Copper (I) oxide
  - copper (II) oxide
  - copper (I) chloride
  - copper (II) hydroxide
42. Pig-iron is brittle because it contains\_\_\_\_\_.
- a high percentage of carbon as impurity
  - calcium trioxosulphate (iv) acid
  - anhydrous calcium chloride
  - phosphorus (v) oxide
43. Which of the following is normally used for drying ammonia gas?
- concentrated tetraoxosulphate (VI) acid
  - calcium oxide
  - Lead (IV) tetraethyl
  - sodium hydroxide
44. The following metals are extracted by the electrolytic method except\_\_\_\_\_.
- potassium
  - calcium
  - tin
  - magnesium
45. Nuclear reaction can be used in the following except\_\_\_\_\_.
- gauging the-thickness of objects
  - making-atomic bombs
  - curing cancer
  - purifying water
46. To what temperature must a gas be raised from 273k in order to double both its volume and pressure?
- 298k
  - 300k
  - 546k
  - 1092k
47. Which of the following is not a direct petroleum product?
- ethanol
  - petrol
  - methane
  - Vaseline
48. Compounds that have the same molecular formula but different structures are said to be
- allotropic
  - isomeric
  - isotropic
  - polymeric
49. In which of the following crystals are the particles held by Van der Waal's force only?
- sodium chloride
  - ice
  - diamond
  - iodine
50. Hydrogen is used for the following except\_\_\_\_\_.
- manufacture of ammonia
  - synthesis of hydrochloric acid
  - extinguishing fire
  - manufacture of margarine
51. Under high pressure, real gases do not obey gas laws because their molecules\_\_\_\_\_.
- have become more energetic
  - have become less energetic
  - have become smaller in size
  - decomposed into atoms
52. Which of the following silver halides is readily soluble in ammonium hydroxide?
- AgI
  - AgBr
  - AgCl
  - AgF
53. Hardening of an oil may be achieved by\_\_\_\_\_.
- boiling of the oil with water
  - boiling the oil with a catalyst
  - treating the oil with hydrogen and a catalyst
  - distilling the oil under reduced pressure
54. Starch can be converted to ethyl alcohol by\_\_\_\_\_.
- distillation
  - fermentation
  - cracking
  - isomerization

55. The oxidizing state of manganese in potassium permanganate is \_\_\_\_.

- A. +5
- B. +3
- C. +7
- D. +2

56. Which of the following sentence are all made by the process of polymerization?

- A. nylon and soap
- B. ethanoic acid, margarine and ethanol
- C. nylon and artificial rubber
- D. nylon and margarine

57. Zinc oxide is \_\_\_\_.

- A. basic oxide
- B. acidic oxide
- C. amphoteric oxide
- D. neutral oxide

58. When sodium chloride and metallic sodium are each dissolved in water, \_\_\_\_.

- A. both processes are endothermic
- B. both processes are exothermic
- C. the dissolution of metallic sodium is exothermic
- D. the dissolution of metallic sodium is endothermic

59. The oxidation state of chlorine in potassium chlorates is

- A. +1
- B. +2
- C. +3
- D. +5

60. The nucleus of an atom contains \_\_\_\_.

- A. protons only
- B. neutrons only
- C. protons and neutrons
- D. neutrons and electrons

61. Which of the following is not present in the nucleus of a cell?

- A. chromosomes
- B. nucleus
- E. mitochondrion
- D. genes

62. In aerobic respiration, oxidative phosphorylation takes place in the \_\_\_\_.

- A. cytoplasm

B. mitochondria

C. lysosome

D. ribosome

63. The ability of organisms to maintain a constant internal environment is known as \_\_\_\_.

- A. diuresis
- B. endosmosis
- C. plasmolysis
- D. homeostasis

64. The bicuspid valve is located between the \_\_\_\_.

- A. left auricle and left ventricle
- B. aorta and the left ventricle
- C. superior vena cava and the inferior vena cava
- D. right auricle and right ventricle

65. The pulmonary artery carries \_\_\_\_.

- A. oxygenated blood from the right ventricle to the lungs
- B. deoxygenated blood from the left ventricle to the right auricle
- C. deoxygenated blood from the right ventricle to the lungs
- D. oxygenated blood from the lungs to the right auricle

66. Which of the following organs is responsible for controlling the body temperature regulation and water balance in mammals?

- A. kidney
- B. hypothalamus
- C. parathyroid
- D. adrenal

67. Deamination is the process during which \_\_\_\_.

- A. excess amino acid is broken down into ammonia and a keto-acid
- B. fats and oil are converted into an emulsion for absorption
- C. Excess amino acids is converted into protein
- D. excess glucose converted and stored as glycogen in the liver

68. Which of the following is not classified terrestrial habitat?

- A. forest
- B. guinea
- C. savannah
- D. desert
- E. littoral zone

69. The relationship between a herbivore and the bacteria which live in its caecum is known\_\_\_\_\_.

- A. parasitism
- B. symbiosis
- C. commensalism
- D. saprophytism

70. During blood transfusion, agglutination may occur as a result of the reaction between\_\_\_\_\_.

- A. similar antigens and antibodies
- B. contrasting antigens and antibodies
- C. two different antigens
- D. two different antibodies

71. The brain and the spinal cord make up the\_\_\_\_\_.

- A. automatic nervous system
- B. sympathetic nervous system
- C. central nervous system
- D. parasympathetic nervous system

72. Auxins are produced in the\_\_\_\_\_.

- A. petiole of leaves
- B. apical regions of roots and shoots
- E. epidermis of roots and shoots
- D. parenchyma of roots and shoots

73. The pituitary gland is called the master gland because\_\_\_\_\_.

- A. it is located in the brain
- B. its secretions are more numerous than those of any other gland
- C. its secretion controls other glands
- D. it regulates muscular movements

74. The pigment in the Malpighian layer responsible for skin coloration is known as\_\_\_\_\_.

- A. haemoglobin
- B. melanin
- C. hemocyanin
- D. hemerythrin

75. Which of the following is not an evidence of evolution?

- A. fossil
- B. anatomy
- C. embryology
- D. behaviour

76. Which of the following is not true about gene mutation?

- A. introduces new traits in to a population
- B. cause changes in the DNA
- C. always affects the chromosome number
- D. is a source of the new genes

77. Species can be defined as the group of organisms that

- A. resemble each other and live in the same habitat
- B. are of a common origin and are always found together
- C. resemble each other and can interbreed freely
- D. resemble each other and occupy the same niche

78. The change in colour of the chameleon serves as a means of\_\_\_\_\_.

- A. attraction to the opposite sex
- B. repulsive of the enemy
- C. a camouflage from a predator
- D. production of a variety of skin pigments

79. Increasing specialization of structure and function among animals of the same class or order to survival in new and different environment is called\_\_\_\_\_.

- A. adaptive radiation
- B. homology
- C. phylogeny
- D. ontogeny

80. The haploid number of chromosomes in man is\_\_\_\_\_.

- A. 48
- B. 46
- C. 24
- D. 23

81. A cylinder of base its 4cm is open at one end, if the ratio of the area of its base to that of its curved surface is 1:4. calculate the height of the cylinder.

- A. 1cm
- B. 2cm

- C. 4cm
- D. 8cm

82. A headmaster contributes 7% of his income into a fund and his wife contributes 4% of her income. If the husband earns ₦5,500 per annum, and the wife earns ₦4,000 per annum, find the sum of their annual contribution to the fund

- A. ₦1,045
- B. ₦545
- C. ₦440
- D. ₦605

83. A car is traveling at an average speed of 80km/hr. Its speed in meters per second is

- A. 13.3m/s
- B. 22.2m/s
- C. 222.2m/s
- D. 24m/s

84. Which of the following is not a measure of dispersion?

- A. mode
- B. range
- C. mean deviation
- D. standard deviation

85. Convert 77 to a number in base two

- A. 111001
- B. 1001101
- C. 100110
- D. 10101

86. What must be added to the expression  $x^2 - 18x$  to make it a perfect square?

- A. 3
- B. 9
- C. 72
- D. 81

87. The area of a parallelogram is  $513\text{cm}^2$  and the height is 19cm. calculate the base.

- A. 13.5cm
- B. 25cm
- C. 27cm
- D. 98cm

88. Calculate the total surface area of a cone of height 12cm and base radius 5cm.

- A.  $180\frac{5}{7}\text{cm}^2$
- B.  $240\frac{2}{7}\text{cm}^2$

- C.  $282\frac{6}{7}\text{cm}^2$
- D.  $235\frac{5}{7}\text{cm}^2$

89. The area and a diagonal of a rhombus are  $60\text{cm}^2$  and 12cm, respectively. Calculate the length of the other diagonal.

- A. 5cm
- B. 6cm
- C. 10cm
- D. 12cm

90. The angle of a sector of a circle radius 10.5cm is  $120^\circ$ ; find the perimeter of the sector.

- A. 22cm
- B. 33.5cm
- C. 43cm
- D. 66cm

91. The sum of the interior angles of a regular polygon is 30 right angles. How many sides has the polygon?

- A. 34 sides
- B. 30 sides
- C. 17sides
- D. 15 sides

92. If the exterior angles of a quadrilateral are  $y$ ,  $(2y+5)^\circ$ ,  $(y+15)^\circ$  and  $(3y-10)^\circ$ , find  $y$

- A. 61.43
- B. 60
- C. 51.43
- D. 50.

93. The sum of angles of a regular polygon is  $2520^\circ$ , how many sides does the polygon have?

- A. 20
- B. 18
- C. 15
- D. 16

94. Which of the following is not a property of all parallelograms?

- A. the diagonals bisect each other
- B. the diagonals cut at right angles
- C. the opposite sides arc equal
- D. the opposite angles arc equal

95. The length of an exercise book is given as 20cm correct to the nearest centimetre, in which of the following ranges of possible measurements does the actual length lie?



- A. 19.1 – 0.9cm
- B. 19 – 21cm
- C. 19.5 – 20.5cm
- D. 19.9 – 2.1 cm

96. If 3 children share ₦10.50 among themselves in the ratio 6:7:8 how much is the largest share?

- A. ₦3.00
- B. ₦4.00
- C. ₦3.50
- D. ₦5.00

97. By selling some crates of soft drinks for ₦600.00, a dealer makes a profit of 50%. How much did the dealer pay for the drinks?

- A. ₦400.00
- B. ₦450.00
- C. ₦200
- D. ₦900

98. A hollow sphere has a volume of  $k\text{cm}^3$  and a surface area of  $k\text{cm}^2$ . Calculate the diameter of the sphere.

- A. 3cm
- B. 6cm
- C. 9cm
- D. more information is needed

99. Find the median of the following numbers: 2.64, 2.50, 2.72, 2.91 and 2.35

- A. 2.91
- B. 2.72
- C. 2.6
- D. 2.50

100. A baker used 40% of a 50g bag of flour. If  $\frac{1}{8}$  of the amount used was for cake, how many kilogrammes of flour were used for cake?

- A.  $2\frac{1}{2}$
- B.  $6\frac{1}{4}$
- C.  $15\frac{5}{8}$
- D. 17

## ANSWERS TO 2010/2011 UNIZIK QUESTIONS

1. D 2. B 3. B 3. D 5. C 6. A 7. D 8. D 9. C  
10. B 11. C 12. D 13. C 14. A 15. B 16. D  
17. B 18. B 19. D 20. C 21. D 22. B 23. C  
24. C 25. B 26. D 27. C 28. C 29. B 30. D  
31. C 32. C 33. B 34. B 35. C 36. D 37. A  
38. A 39. C 40. A 41. A 42. A 43. B 44. C  
45. D 46. D 47. A 48. B 49. D 50. C 51. B  
52. C 53. C 54. B 55. C 56. C 57. C 58. C  
59. D 60. C 61. C 62. B 63. D 64. A 65. C  
66. B 67. A 68. D 69. B 70. B 71. C 72. B  
73. C 74. B 75. D 76. C 77. C 78. C 79. A  
80. D 81. D 82. B 83. B 84. A 85. B 86. D  
87. C 88. C 89. C 90. C 91. C 92. D 93. D  
94. B 95. D 96. B 97. A 98. B 99. C 100. A

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# 2011/2012 UNIZIK POST UTME QUESTIONS

**Time Allowed:** 1 hour

**Fill in the blank in the following sentences making use of the best of the options**

1. The project which seemed very realized\_\_\_\_\_ because of lack of funds.

- A. fell over
- B. fell through
- C. fell off
- D. fell in
- E. fell down

2. The member of the panel were\_\_\_\_\_.

- A. discussing about it
- B. discussing on it.
- C. discussing upon it
- D. discussing it
- E. discussing around it

3. It is time we\_\_\_\_\_.

- A. should be going
- B. ought to go
- C. are going
- D. went
- E. go

4. The way to stop some frivolous publication is to\_\_\_\_\_ the press.

- A. gag
- B. shackle
- C. fetter
- D. handcuff
- E. blind

5. Without\_\_\_\_\_ words he accused him directly of ignorance.

- A. amending
- B. modifying
- C. mixing
- D. mincing
- E. meaning

**Choose the word or phrase closest in meaning to the underlined word(s).**

6. Most times my classmate tells\_\_\_\_\_ stories.

- A. costly

B. unreasonable

C. clever

D. untrue

C. funny

7. Never in the history of human conflict has **so much been owed by so many to so few.**

- A. many people owed much money at the end of the war
- B. a handful of people saved the lives of a nation
- C. a few people did a lot of things gratis
- D. this conflict caused the largest ransom ever demanded
- E. very little was owed by anyone to anybody

8. The **ingenious** scheme of the robber broke down because of the efficiency of the police officer. Ingenious here means\_\_\_\_\_.

- A. suspicious
- B. ambitious
- C. deceitful
- D. clever
- E. stupid

9. **Be careful** we are approaching the crossroads.

- A. look up
- B. watch out
- C. hold up
- D. look in

10. He **took exception** to Njoku's remark.

- A. was delighted
- B. was excited by
- C. got demoralized by
- D. objected to
- E. was perplexed by

**Choose the option opposite in meaning to the word(s) or phrase underlined**

11. For millions of years the world's resources have remained **boundless.**

- A. unlimited
- B. scarce
- C. indomitable
- D. limited

E. available

12. The president took exception to the **ignoble** role the young man played in the matter.

- A. honourable
- B. embarrassing
- C. dishonourable
- D. extraordinary
- E. dishonesty

13. He accepted a **mundane** task without hesitation.

- A. great
- B. lowly
- C. menial
- D. moderate
- E. ordinary

14. In a sentence, there must always be **concord** between subject and verbs.

- A. breach
- B. departure
- C. disagreement
- D. dispute
- E. alliance

15. The lecturer was merely **obfuscating** the issue with his endless examples.

- A. complicating
- B. clarifying
- C. confusing
- D. summarizing
- E. boring

**Fill each gap with the most appropriate option from the list following the gap**

16. My shoes are worn out, I must see my\_\_\_\_\_.

- A. grocer
- B. tanner
- C. cobbler
- D. hosier
- E. shoemaker

17. \_\_\_\_\_woman was attacked by a group of bandits.

- A. a 90-years old
- B. a 90-year old
- C. 90-year old
- D. 90-year old
- C. 90-years old

18. She has been here\_\_\_\_\_ the past three weeks.

- A. since
- B. for
- C. from
- D. in
- E. during

19. Before mechanization, workers \_\_\_\_\_ water out of fabrics with their hands.

- A. wring
- B. wrung
- C. wrung
- D. wringled
- E. wrong

20. Three quarter of the physics class \_\_\_\_\_ dramatically.

- A. improve
- B. improves
- C. are improving
- D. is improving
- E. is improved

21. Eze is contemptuous\_\_\_\_\_ dishonest people.

- A. to
- B. at
- C. for
- D. of
- E. from

22. The plaintiff\_\_\_\_\_ the court to restrain the defendants from further action.

- A. asked
- B. begged
- C. demanded of
- D. prayed for

23. Ngozi is prepared for a\_\_\_\_\_.

- A. show-off
- B. show-down
- C. show-out
- D. show-up
- E. show-up

24. The president rejected the bill and withheld his\_\_\_\_\_.

- A. accent
- B. assent
- C. access
- D. ascent
- E. assess

25. The dark continent was an \_\_\_\_ for Africa.  
 A. abuse  
 B. enigma  
 C. electric  
 D. epithet  
 E. impression

**Choose the best of the options from the questions below.**

26. Which of the best following metals cannot replace hydrogen from water or steam?

A. Sodium  
 B. magnesium  
 C. iron  
 D. calcium  
 E. copper

27. Which of the following changes is physical?

A. adding iron fillings to aerated water  
 B. adding sodium metal to water  
 C. cooling a solution of iron (ii) sulphate to Obtain the hydrated salt  
 D. cooling water to obtain ice  
 E. burning the domestic gas for cooking

28. 0.1 faraday of electric was passed through a solution of copper (ii) sulphate. The maximum weight of \_\_\_\_.

A. 64.0g  
 B. 32.0g  
 C. 16.0g  
 D. 6.4g  
 E. 3.2g

29. Bronze is an alloy of \_\_\_\_.

A. copper zinc and nickel  
 B. aluminium and copper  
 C. copper and zinc  
 D. tin and zinc  
 E. tin and copper

30. Starch can be converted to ethyl alcohol by \_\_\_\_.

A. distillation  
 B. fermentation  
 C. isomerization  
 D. cracking  
 E. cooking

31. Pick out the correct statement

A. zinc heated to redness reacts with steam to give oxygen and zinc oxide  
 B. zinc heated to redness react with steam to give oxygen and hydrogen  
 C. zinc does not react with hot or cold water  
 D. zinc reacts with hot water to form zinc oxide and hydrogen  
 E. zinc reacts very easily with cold water

32. Chlorine, bromine and iodine resemble each other in that all \_\_\_\_.

A. dissolve in alkalis  
 B. reacts violently with hydrogen without heating  
 C. displace each other from solutions of their salts  
 D. are gases  
 E. are liquids

33. When air is compressed, \_\_\_\_.

A. its density decreases  
 B. it solidifies  
 C. its temperature decreases  
 D. its temperature increases  
 E. its temperature remains unchanged

34. Which of the following is formed when maltose reacts with concentrated tetraoxosulphate (VI) acid?

A. carbon(iv)oxide  
 B. coal tar  
 C. charcoal  
 D. toxic fumes  
 E. none of the above

35. A property of a colloidal dispersion which a solution does not have is \_\_\_\_.

A. the Tyndale effect  
 B. homogeneity  
 C. osmotic pressure  
 D. surface polarity  
 E. all of the above

36. Dr. Nnamdi Azikiwe was born in \_\_\_\_.

A. 1909  
 B. 1900  
 C. 1904  
 D. 1901  
 E. 1902

37. One of the following was a female Governor in Nigeria.

- A. prof. Dora Akunyili
- B. Dame patience Good luck
- C. Hon. Uche Ekwunife
- D. Dame VerayEtiaba
- E. Chief (Mrs) Serah Jubril

38. The 2010 soccer world-cup competition took place in\_\_\_\_\_.

- A. Germany
- B. Brazil
- C. Columbia
- D. U.S. A
- C. South Africa

39. The first Nigerian vice-chancellor was\_\_\_\_\_.

- A. Prof. Eni Njoku
- B. Prof. Takenna Tamuno
- C. Prof. Ade Ajayi
- D. Prof. Kenneth Dike
- E. Prof. Adeoye Lambo

40. The capital of Lagos state is\_\_\_\_\_.

- A. Surulere
- B. Victoria Island
- C. Ikeja
- D. Oshodi
- C. Ikorodu

41. If x is positive for what range of x is  $4 + 3x < 10$  ?

- A.  $0 < x < 2$
- B.  $x < x$
- C.  $x < 2$
- D.  $0 < x < \frac{43}{4}$
- E.  $0 > x > 2$

42. A house bought for ₦100,000 was later auctioned for ₦80,000. Find the loss in percent.

- A. 20%
- B. 30%
- C. 40%
- D. 50%
- E. 60%

43. If  $2x + y = 7$  and  $3x - y = 3$ , by how much is  $7x$  greater than  $10$ ?

- A. 1
- B. 3
- C. 7
- D. 10
- E. 17

44. Find the number whose logarithm to base 10 is 2.6025.

- A. 400.4
- B. 0.4004
- C. 0.0004004
- D. 0.0004004

45. Simplify  $\frac{3}{4} \div 1\frac{1}{4} \times (1\frac{1}{2} - \frac{2}{3})$

- A.  $\frac{7}{30}$
- B.  $\frac{7}{24}$
- C.  $\frac{9}{25}$
- D.  $\frac{1}{2}$
- C.  $\frac{18}{25}$

46. A slick of length 1.7m was measured by a boy as find percentage error in his measurement.

- A.  $2\frac{1}{9}\%$
- B.  $2\frac{6}{7}\%$
- C. 5 %
- D.  $27\frac{1}{9}\%$
- E.  $28\frac{4}{7}\%$

47. Simplify  $\log_3 9 + \log_3 15 - \log_3 5$ .

- A. log 19
- B. log3
- C. 3
- D. 1
- E. 0

48. A trader makes a loss of 15% when selling an article. Find the ratio, selling price: cost price.

- A. 3:20
- B. 3:17
- C. 17:20
- D. 20:2
- E. 3:23

49. If N varies directly as M and N= 8 when M=20, find M, when N= 7.

- A. 13
- B. 15
- C.  $17\frac{1}{2}$
- E. 19

50. Solve for T in the equation

$$\frac{3}{4}t + \frac{1}{3}(21-t) = 11$$

- A.  $\frac{9}{13}$
- B.  $3\frac{9}{13}$
- C. 5

- D.  $9\frac{3}{5}$   
E.  $5\frac{9}{13}$

## ANSWERS TO 2011/2012 UNIZIK QUESTIONS

1. B 2. D 3. D 4. A 5. D 6. B 7. C 8. D 9. B  
10. D 11. D 12. A 13. A 14. C 15. B 16. C  
17. B 18. B 19. B 20. D 21. D 22. D 23. B  
24. B 25. D 26. E 27. D 28. E 29. E 30. B  
31. D 32. C 33. D 34. C 35. A 36. C 37. D  
38. E 39. D 40. C 41. A 42. A 43. C 44. A  
45. D 46. C 47. C 48. C 49. C 50. D

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# 2013/2014 UNIZIK POST UTME QUESTIONS

**Time allowed:** 1 hour

## COMPREHNSION

**Read the passage carefully and answer the questions that follow**

I began work at the smithy on the Monday morning. My wages were half a crown a week. My hours were half from six in the morning till six at night, with an hour's break lunch. My Boss, Boeta Dick, was a tall, bent, ready consumptive. He had a parched yellow skin, drawn tight over his jutting bones. His cheeks were so sunken; it was as though he were permanently sucking them in. His eyes were far back in his head, he coughed violently, and besides his seat was a bucket of sand into which he spat. Changing the sand daily was the only part of my job I hated.

The smithy was divided parts, at one end were the machines that cut, shaped, and put the tins together. The men who worked on the machines were on a regular weekly wage. The other end, was a row of small furnaces each with its own bellows and pile of fuel. Here, at each furnace, a man sat soldering the seams of the tins as they came from the machines. The soldiers were on piece-work. To average two or three pounds a week they had to a smear the seams of each tin with sulphur powder so that the lead took easily, and, after checking, to cart the tins out of the yards where the Lorries collected them.

1. The boss, Boeta Dick, can be described as being\_\_\_\_\_.

- A. Skinny
- B. hard working
- C. ambitious
- D. a Chinese
- E. slender

2. Boeta Dick spat in the bucket because\_\_\_\_\_.

- A. He was sick
- B. he had a dirty habit
- C. he coughed

- D. the smithy smelled badly
- E. it is good to spit regularly

3. Without the soldiers in the smithy.

- A. No work can be done
- B. The boss will go into debt
- C. The boss will go into debt
- D. The boss will be unhappy
- E. The other workers will not like their job

4. The soldiers received\_\_\_\_\_.

- A. occasional money for their work.
- B. too much for their work
- C. just enough for their work
- D. a fair wage
- E. not so much as their work demanded

5. Sulphur powder was added to\_\_\_\_\_.

- A. beautify the tin
- B. complete the manufacture
- C. strengthen the tin
- D. satisfy the boss
- E. ensure that the tins were not damaged during transportation

**Fill in the blank in the following sentence making use of the best options**

6. The train\_\_\_\_\_ before I arrived.

- A. left
- B. had left
- C. would leave
- D. was leaving
- E. was left

7. I am writing to you for\_\_\_\_\_ reasons.

- A. plenty
- B. myriad
- C. concerned
- D. several
- E. all of the above

8. Yesterday, my mother asked me\_\_\_\_\_.

- A. if I was tired
- B. if I am tired
- C. are you tired
- D. whether was I tired
- E. none of the above

9. The public library stopped\_\_\_ book to readers.  
A. lending  
B. borrowing  
C. loaning  
D. renting  
E. all of the above
10. You, who\_\_\_ convicted, should appeal.  
A. was  
B. are  
C. has been  
D. is  
E. were
11. Each of the houses\_\_\_ a new look.  
A. have got  
B. have  
C. has  
D. were  
E. had
12. Actually, he forgot the one to\_\_\_ the job was given.  
A. whom  
B. who  
C. whomever  
D. whoever  
E. whichever
13. People dislike Sam because he is\_\_\_\_.  
A. trickful  
B. trickish  
C. tricky  
D. a tricker  
E. tricksome
14. John say he is not afraid of\_\_\_\_.  
A. anybody  
B. nothing  
C. nobody  
D. no one  
E. none
15. The minister address the workers to boost their\_\_\_\_.  
A. morale  
B. morality  
C. mural  
D. moral  
E. more

**Choose the word or phrase closest in meaning to the underlined phrase**

16. The company is to **shed** three thousand staff this year.  
A. throw.  
B. placate  
C. lay off  
D. spacious  
E. throw away
17. There was a **glut** of oil on the market.  
A. an abundance  
B. an increase  
C. a variety of  
D. accumulated  
E. supply of
18. From what she said one may **infer** that she does not like the course.  
A. agree  
B. deduce  
C. suppose  
D. realize  
E. alarm

**Choose the option opposite in meaning to the word(s) or phrase underlined**

19. What a **harmless** thought he has.  
A. Pernicious  
B. pertinent  
C. pleasant  
D. perfect  
E. penitent
20. In the latter part of his life, the famous soldier showed signs of **youthfulness**.  
A. energy  
B. senility  
C. bravery  
D. vitality  
E. brevity

**Choose the best of the options from the Questions below.**

21. When cathode rays are deflected onto the electrode of an electrometer, the instrument becomes\_\_\_\_.  
A. negatively charge  
B. positively charged  
C. neutral

- D. bipolar
- E. none of the above

22. The weakest attractive force that can be observed between two molecules is

- A. ionic
- B. covalent
- C. coordinate
- D. van der Waals
- E. all of the above

23. A consequence of global warming is solute\_\_\_\_\_.

- A. Air pollution
- B. water pollution.
- C. increased humidity
- D. flooding

24. A change in the temperature of a saturated solution disturbs the equilibrium between the\_\_\_\_\_.

- A. Dissolved solute and the solvent
- B. Solvent and the undissolved solute
- C. Dissolved solute and the undissolved solute
- D. Dissolved solute and the solution
- E. None of the above

25. The commonest feature of reactions at the anode is that\_\_\_\_\_.

- A. electrons are consumed
- B. oxidation is involved
- C. ions are reduced
- D. electrode dissolved
- E. none of the above

26. Phenolphthalein in acidic solution is\_\_\_\_\_.

- A. red
- B. orange
- C. colourless
- D. yellow
- E. pink

27. Natural water collected from rivers and ponds contains oxygen, carbon(iv) oxide and \_\_\_\_\_.

- A. nitrogen
- B. hydrogen
- C. chlorine
- D. sulphur (iv) oxide
- E. none of the above

28. The component of atom that contributes least to its mass is\_\_\_\_\_.

- A. proton
- B. nucleus
- C. neutron
- D. electron
- E. none of the above

29. The most abundant element on earth's crust is\_\_\_\_\_.

- A. nitrogen
- B. hydrogen
- C. oxygen
- D. fluorine
- E. chlorine

30. The ore that can be concentrated by floatation are\_\_\_\_\_.

- A. nitride ores
- B. sulphide ores
- C. oxide ores
- D. chloride ores
- E. none of the above

31. In a cell, the genes are carried by\_\_\_\_\_.

- A. nuclear membranes.
- B. chromatin.
- C. lysosomes
- D. mitochondria
- E. none of the above

32. The first terrestrial vertebrates evolved from\_\_\_\_\_.

- A. Pisces
- B. Reptilia
- C. Amphibia
- D. Mammalia
- E. lions.

33. Which of the following is an example of a carnivorous plant?

- A. hydra
- B. bladderwort
- C. yeast
- D. Spirogyra
- E. none of the above

34. Plants that grow in an area that is neither too wet nor too dry are\_\_\_\_\_.

- A. xerophytes
- B. mesophytes
- C. epiphytes
- D. hydrophytes
- E. epiphytes

35. Radial symmetry is a feature common to the\_\_\_\_.

- A. platyhelminths
- B. nematodes
- C. coelenterates
- D. arthropods
- E. none of the above

36. Insectivorous plants trap and kill their prey to derive\_\_\_\_.

- A. Phosphorous
- B. Calcium
- C. Nitrogen
- D. Zincs
- E. all of the above

37. The mangrove swamp in Nigeria is restricted to the\_\_\_\_.

- A. tropical rainforest
- B. Sudan savanna
- C. Sahel savanna
- D. Guinea savanna
- E. all of the above

38. Which of the following produces both hormones and enzymes?

- A. Gall bladder
- B. ileum
- C. pancreas
- D. kidney
- E. muscle

39. The causative agent of typhoid fever is\_\_\_\_.

- A. Entamoeba
- B. Salmonella
- C. Shigella
- D. Escherichia
- E. Amoeba

40. The organelle common to both plant and animal cell is the\_\_\_\_.

- A. centriole
- B. plasmalemma
- C. cell wall
- D. chloroplast
- E. none of the above

41. Homologous pair of chromosomes separate during\_\_\_\_.

- A. Cytolysis.
- B. cleavage
- C. mitosis

D. meiosis

E. none of the above

42. The best method of propagating sugarcane is by\_\_\_\_.

- A. Seed sowing
- B. layering
- C. grafting
- D. stem cutting
- E. none of the above

43. In semi-conductors, the carriers of current at room temperature are\_\_\_\_.

- A. electrons only
- B. electrons and holes
- C. holes only
- D. electrons and ions
- E. none of the above

44. The inner diameter of a small test tube can be measure accurately using a\_\_\_\_.

- A. Micrometre screw gauge
- B. pair of dividers
- C. meter rule
- D. pair of Vernier callipers
- E. all of the above

45. If a spherical metal of radius 3cm is fully immersed in a cylinder containing water and the water level rises by 1cm, what is the radius of the cylinder?

- A. 1cm
- B. 3cm
- C. 5cm
- D. 12cm
- E. 16cm

46. A string is fastened tightly between two walls 24cm apart. The wavelength of the second overtone is\_\_\_\_.

- A. 8cm
- B. 12cm
- C. 16cm
- D. 24cm
- E. 36cm

47. What is the angle of dip at the magnetic equator?

- A. 180°
- B. 90°
- C. 45°
- D. 0°
- E. 100°

48. A concave mirror of radius of curvature 40cm forms a real image twice as large as the object the object distance is\_\_\_\_\_.

- A. 30cm
- B. 40cm
- C. 60cm
- D. 10cm
- E. 80cm

49. A cone in an unstable equilibrium has its potential energy.

- A. decreased
- B. increased
- C. uncharged
- D. oscillating
- E. none of the above

50. An object of mass 50kg is released from a height of 2m. Find the kinetic energy just before it strikes the ground.

- A. 250J
- B. 1000J
- C. 10,000J
- D. 100,000J
- E. 500J

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## **ANSWERS TO 2013/2014 UNIZIK QUESTIONS**

1. A 2. C 3. C 4. E 5. C 6. B 7. D 8. A 9. A  
10. B 11. C 12. A 13. C 14. A 15. A 16. C  
17. A 18. B 19. A 20. B 21. A 22. D 23. D  
24. C 25. B 26. C 27. A 28. D 29. C 30. B  
31. E 32. B 33. B 34. B 35. C 36. C 37. A  
38. C 39. B 40. B 41. D 42. D 43. B 44. D  
45. C 46. C 47. D 48. A 49. B 50. B

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**2014/2015 UNIZIK POST UTME QUESTIONS [SESSION 1]****Time Allowed:** 50 minutes**Choose the option that best conveys the meaning of the underlined words**1. Her summary of the meeting was **brief and straight to the point.**

- A. careful
- B. precise
- C. accurate
- D. exact
- E. crucial

2. The whole students where happy that the academic year had **taken off.**

- A. gone off
- B. started
- C. ended
- D. continued
- E. truncated

3. His **penury** gave him a life time of hunger.

- A. avariciousness
- B. affluence
- C. poverty
- D. penny pinching
- E. greed

**Choose the option that most suitably fills the space**

4. He\_\_\_\_\_ read more but he is tired.

- A. ought to
- B. may
- C. would
- D. could
- E. should

5. We have been having\_\_\_\_\_ series of meetings lately.

- A. some
- B. a
- C. a lot of
- D. many
- E. few

6. Don't forget to hang\_\_\_\_\_ the telephone when you finish.

- A. down
- B. up

- C. in
- D. on
- E. out

7. Almost all building which\_\_\_\_\_ in 1950s \_\_\_\_\_not habitable now

- A. were build/are
- B. were built/are
- C. were built/were
- D. were built/are
- E. are build/are

8. Some motor bikes\_\_\_\_\_ Aroma and Unizik

- A. shuttle along
- B. shuttle to
- C. shuttle between
- D. shuttle from
- E. shuttle in

9. I \_\_\_\_\_ you refuse the\_\_\_\_\_.

- A. advice/advise
- B. advise/advice
- C. advise/advise
- D. advice/advice
- E. adverse/adverse

10. The chairman, no less than the members\_\_\_\_\_ to blame

- A. is
- B. are
- C. were
- D. ought to
- E. should

11. Did the ladies enjoy\_\_\_\_\_.

- A. each other
- B. one another
- C. themselves
- D. theirselves
- E. theirself

12. The worker did a shoddy job at that\_\_\_\_\_.

- A. cite
- B. sight
- C. site
- D. sait
- E. side

**Choose the option that is opposite in meaning to the underlined words**



13. Their students are very **conscientious**

- A. careful
- B. industrious
- C. carefree
- D. corrupt
- E. energetic

14. The businessman is very **unsuccessful**.

- A. unscrupulous
- B. unskilful
- C. unlucky ungrateful
- E. prosperous.

15. **Spurious** arguments are easily identified by smart guys.

- A. genuine
- B. interesting
- C. false
- D. illogical
- E. boring.

16. In my opinion, the decision was **disinterested**.

- A. neutral
- B. impartial
- C. biased
- D. candid
- E. foolish

**Identify the word that has a different vowel sound from the others**

17. A. key  
B. win  
C. even  
D. people

18. A. tear (verb)  
B. hear  
C. weird  
D. mere

19. A. cost  
B. won't  
C. hope  
D. coast

**Identify the word that has a different consonant sound from the others**

20. A. wife  
B. of

- C. off  
D. laugh

**Choose the correct or best answer to the following questions**

21. The lenticels:

- A. remove excess water in plant
- B. absorbs water from the atmosphere
- C. is for gaseous exchange
- D. absorbs light
- E. stores food

22. A photometer is used to determine the rate at which a shoot\_\_\_\_\_.

- A. respire
- B. sucks air bubbles
- C. lose weight
- D. absorbs air
- E. transpires

23. One of these is not a digestive enzyme.

- A. bile
- B. lipase
- C. maltase
- D. pepsin
- E. ptyalin.

24. Which of these is not metamerically segmented?

- A. tapeworm
- B. earthworm
- C. centipede
- D. crayfish
- E. shark.

25. Which of these diseases could be exclusively associated with a river basin?

- A. malaria
- B. syphilis
- C. onchocerciasis
- D. cholera
- E. poliomyelitis

26. Which of these statements is true about enzymes? They\_\_\_\_\_.

- A. are carbohydrates
- B. most times do not need co-factors to be active
- C. are not sensitive to hydrogen ion concentration
- D. are not specific in their actions
- E. cannot withstand high temperature

27. Soil erosion can be controlled by all these **except**\_\_\_\_\_.
- planting cover crops
  - contouring of sloping ground
  - terracing poles
  - laying of much
  - all of the above
28. Evidence that the tooth is a living part of the body can be found in the\_\_\_\_\_.
- gum
  - pulp cavity
  - cement
  - enamel
  - diastema
29. In higher animals most cells retain power division **except**\_\_\_\_\_.
- lymphocytes
  - nerve cells
  - Malpighian cells
  - germ cells
  - liver cells.
30. Taxism is different from tropism in that in taxism:
- the whole organism is affected
  - one directional movement is involved
  - it is a response to multi-directional movement
  - part of the organism is affected
  - the organism is not in motion
31. The molarity of a 20% by weight of aqueous solution of  $H_2SO_4$ (molecular weight is 98) is\_\_\_\_\_.
- 4.55
  - 3.55
  - 2.55
  - 0.21
  - 0.51
32. A gas occupies  $30.0dm^3$  at S.T.P. What volume will it occupy at  $91^\circ C$  and  $380mmHg$ ?
- $20.0dm^3$
  - $40.0dm^3$
  - $60.0dm^3$
  - $80.0dm^3$
  - $100.0dm^3$
33. When ethane gas reacts with chlorine gas to form 1, 2-dichloroethane, the reaction is

called\_\_\_\_\_.

- Substitution
- addition
- polymerization
- hydrolysis
- reduction

34. The reaction of ethanoic acid and ethanol with acid catalyst will produce one of these as the organic product\_\_\_\_\_.

- ethyl ethanoate
- ethyl methyl ketone
- butanol
- cholera
- none of the above

35. In preparation ammonia, the drying agent used is?

- CaO
- $CaCl_2$
- conc
- $H_2SO_4$
- $P_2O_5$
- $H_2PO_4$

36. One of these has an isomer.

- $C_2H_4$
- $C_4H_{10}$
- $C_3H_8$
- $C_2H_6$
- $C_6H_8$

37. In a flame test, copper exhibits what colour?

- green
- lilac
- blue-green
- crimson
- yellow-green

38. The characteristic reaction of the carbonyl compound is\_\_\_\_\_.

- Substitution
- elimination
- addition
- saponification
- oxidation-reduction

39. What volume of oxygen will remain after reacting with  $8cm^3$  of hydrogen with  $20cm^3$  of oxygen?

- $10.0cm^3$
- $12.0cm^3$

- C.  $14.0 \text{ cm}^3$   
E.  $18.0 \text{ cm}^3$

40. Which of these gases is the Carbon on (II) oxide pollutant?

- A. hydrogen sulphide  
B. Carbon (IV) oxide  
C. Sulphide (IV) oxide  
B. Carbon (II) oxide  
E. all of the above

41. When the size of the hole of a pin-hole camera is increased, the result is\_\_\_\_\_.

- A. a blurred image  
B. magnified image  
C. correction for chromatic aberration  
D. sharper focus of the image  
E. no much effect

42. The mechanical advantage of an inclined ne plane depends on:

- A. its length  
B. its height  
C. the product of its height and length  
D. the ratio of its height to its length  
E. the different between its height and its length

43. On dispersing white light with spectrometer, the component with the shortest wave length is\_\_\_\_\_.

- A. orange  
B. green  
C. violet  
D. red  
E. yellow

44. One of these is a vector.

- A. electric charge  
B. electric field  
C. electric potential difference  
D. electric capacitance  
E. electric resistance

45. Surface tension is important in\_\_\_\_\_.

- A. the floating of a ship in water  
B. the floating of a dry needle in water  
C. the floating of a balloon in air  
D. the diffusion of a sugar solution across a membrane  
E. the diffusion of a digested food in animals

46. Thermionic emission is the process by which\_\_\_\_\_.

- A. B- rays are produced  
B. Z-rays are produced  
C. a-rays are produced  
D. electrons leave hot element  
E. electrons are transferred to hot element

47. Conveyor belt have rough surface in order to\_\_\_\_\_.

- A. make them carry load  
B. make them strong  
C. protect them when loads are on them  
D. make them slip less  
E. last longer

48. Most of the gas in a discharge tube is pumped out so that electricity is conducted at\_\_\_\_\_.

- A. high pressure  
B. low pressure  
C. low voltage  
D. steady voltage  
E. high voltage

49. The ground is cold at night because\_\_\_\_\_.

- A. sun no longer shines  
B. atmosphere reflects the sun energy at night  
C. atmosphere absorbs the sun energy at night  
D. earth radiates heat to the atmosphere at night  
E. there is dew at night

50. If the refractive index of a medium in air is 2.0. What is the critical angle for this medium?

- A.  $30^\circ$   
B.  $42^\circ$   
C.  $45^\circ$   
D.  $50^\circ$

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## **ANSWERS TO 2014/2015 QUESTIONS [SESSION 1]**

1. B 2. B 3. C 4. A 5. B 6. B 7. B 8. C 9. B  
10. A 11. C 12. C 13. C 14. E 15. A 16. C  
17. B 18. C 19. A 20. B 21. C 22. A 23. A  
24. E 25. C 26. E 27. D 28. B 29. D 30. A  
31. A 32. D 33. A 34. A 35. A 36. B 37. E  
38. C 39. D 40. E 41. A 42. C 43. C 44. B  
45. A 46. D 47. D 48. B 49. D 50. A

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**2014/2015 UNIZIK POST UTME QUESTIONS [SESSION 2]****Time Allowed:** 1 Hour**Choose the option that best conveys the meaning of the underlined words**

1. From the way my friend talks, you can see

bore.

- A. rude
- B. brilliant
- C. uninteresting
- D. overbearing
- E. humorous

2. There is an obvious symmetry in the whole presentation.

- A. confusion
- B. hesitation
- C. excitement
- D. orderliness
- E. dissatisfaction

5. We should take care \_\_\_\_\_ the robbers come back.

- A. may he
- B. should in case
- C. perhaps
- D. probably
- E. in case

6. \_\_\_\_\_ for the team for nine months, he decided to join another.

- A. when he played
- B. plain
- C. having played
- D. in playing
- E. when he was playing.

7. The bridge connecting the two cities was \_\_\_\_\_ by the enemy.

- A. blown up
- B. blown down
- C. blown off
- D. blown over
- E. blown away

8. They went to the market and bought a suitcase and \_\_\_\_\_ bag.

- A. a big leather brown
- B. a leather brown big
- C. a big brown leather

D. a brown big leather

E. a leather big brown

9. The teacher was very sympathetic \_\_\_\_\_ his students.

- A. to
- B. at
- C. for
- D. from
- E. on

10. Formally his brother used to walk but nowadays he to work \_\_\_\_\_ by bicycle.

- A. was going
- B. is going
- C. seldomly goes
- D. goes
- E. has gone

11. The old car \_\_\_\_\_ several times this year.

- A. was repaired
- B. has been repaired
- C. had been repaired
- D. has repaired
- E. was being repaired

12. He told me to go on \_\_\_\_\_ till seven.

- A. to work
- B. worked
- C. works
- D. working
- E. work

13. The **mutineers** were court-martialled for their part in the unsuccessful.

- A. coopes
- B. coupes
- C. coupe
- D. coup
- E. couse

**Choose the option that is opposite in meaning to the underlined words**14. Ogbono soup is ideal for pounded yam.

- A. best
- B. perfect
- C. most suitably
- D. satisfactory
- E. poor

15. A mother admonishing her child without living by example is as **satisfactory** as a hot-tempered pastor preaching about patience.

- A. useless
- B. difficult
- C. interesting
- D. ineffectual
- E. attractive

16. That was quite **callous** of him.

- A. indifferent
- B. compassionate
- C. wicked
- D. careless
- E. carefree

17. Who **authenticated** the number of booklets said to have been supplied?

- A. reaffirmed
- B. discountenanced
- C. discredited
- D. counted
- E. verified

**Choose the option that has same vowel sound as the one represented by the underlined letters**

18. Research

- A. disturb
- B. comfort
- C. affair
- D. carry

19. Rust

- A. loud
- B. touch
- C. bought
- D. march

20. Boat

- A. board
- B. bought
- C. go
- D. glory

**Choose the correct or best answer to the following questions**

21. On a fishing trip, a trawler caught an animal with hairs on its body. This could have been a\_\_\_\_\_.

- A. mammal

- B. reptile
- C. shark
- D. seagull
- E. amphibian

22. One of these is peculiar to the Axis Vertebra.

- A. odontoid process
- B. anterior zygapophysis
- C. posterior zygapophysis
- D. lateral spine
- E. centrum

23. Milk can be pasteurized by\_\_\_\_\_.

- A. the addition of common salt
- B. boiling for one hour
- C. heating to 75°C for 20 minutes
- D. the addition of vinegar
- E. heating to 100°C for 12 hours

24. The contractile vacuole of paramecium\_\_\_\_\_.

- A. produces enzymes
- B. get rid of excreta
- C. stores and digests food
- D. get rid of excess water
- E. controls movement

25. Herbs differ from shrubs because they\_\_\_\_\_.

- A. do not produce fruits
- B. are useful to herbalists
- C. do not become woody
- D. are only annuals
- E. are not perennials

26. The hereditary material in a cell is known as\_\_\_\_\_.

- A. ADP
- B. CNS
- C. RNA
- D. ATP
- E. DNA

27. The oxidative part of respiration takes place in the \_\_\_\_\_.

- A. mitochondria
- B. ribosomes
- C. endoplasmic reticulum
- D. Golgi apparatus
- E. none of the above

28. The long-coiled intestine of a young tadpole is an adaptation to its\_\_\_\_\_.

- A. carnivorous diet
- B. aquatic habitat
- C. insectivorous diet
- D. herbivorous diet
- E. all of the above

29. Which of the following diseases can be caused by a bacterium?

- A. ringworm
- B. poliomyelitis
- C. syphilis
- D. malaria
- E. all of the above

30. The organ which secretes digestive enzyme as well as a hormone is\_\_\_\_\_.

- A. liver
- B. salivary gland
- C. pancreas
- D. spleen
- E. all of the above

31. Mercury is a better barometric liquid because:

- I. It needs no colouring
- II. Its density is many times that of water
- III. It does not wet glass
- IV. It has a high vapour pressure
- V. It has a high boiling point.

Which of the above statements are true?

- A. I and II only
- B. I, II, and III only
- C. III and IV only
- D. IV and V only
- E. III, IV and V only

32. If the wavelength of a wave travelling with a velocity of 360m/s is 60cm, the period of the wave is\_\_\_\_\_.

- A. 0.001667
- B. 0.62222
- C. 1.06676
- D. 20.66
- E. 0.0666

33. Concerning electrical charge:

- A. positive charge means deficit of electrons
- B. negative charge means excess of electrons
- C. electric current means movement of electrons

D. all of the above

E. A and C only

34. An electric current can produce all these effects EXCEPT\_\_\_\_\_.

- A. heat
- B. light
- C. sound
- D. motion
- E. none of the above

35. Ripples on water are similar to light waves since both\_\_\_\_\_.

- A. have the same wavelength
- B. are longitudinal
- C. cannot be reflected
- D. travel at the same speed
- E. can be reflected and diffracted

36. The primary coil of a transformer is 500 turns while the secondary coil is 2500 turns. The voltage input to the primary coil is 120V. What will the output be?

- A. 6000V
- B. 600V
- C. 240V
- D. 60V
- E. 24V

37. Which of these quantities are scalars?

- I. Electrical potential
  - II. Torque
  - III. Momentum
  - IV. Kinetic energy
- A. II and III only
  - B. I and II only
  - C. III and IV only
  - D. II and IV only
  - E. none of the above

38. The E.m.f. of an electrical generator is 240V and its internal resistance is 10. If the current supplied by the generator is 20A when the terminal voltage is 220V, find the ratio of the power supplied to the power dissipated.

- A. 11 :1
- B. 1:11
- C. 12:11
- D. 11:12
- E. 1:12

39. Step down transformer has a power output of 50W and efficiency of 80%. If the



mains supply voltage is 200V, calculate the primary current of the transformer.

- A. 0.31A
- B. 3.20A
- C. 3.40A
- D. 5.00A
- E. 2.00A

40. Impulse has the same dimension as one of these physical quantities.

- A. energy
- B. momentum
- C. surface tension
- D. pressure
- E. none of the above

41. If heat is absorbed during a chemical reaction, it is said to be\_\_\_\_\_.

- A. thermodynamic
- B. exothermic
- C. isothermal
- D. endothermic
- E. thermostatic

42. The metallic ions associated with hard water are\_\_\_\_\_.

- A. copper and zinc
- B. magnesium and silver
- C. calcium and magnesium
- D. potassium and tin
- E. sodium and lead

43. An organic compound that decolourises bromine water is most likely to be\_\_\_\_\_.

- A. saturated
- B. supersaturated
- C. unsaturated
- D. a solid
- E. protonated

44. A white solid which when water is poured on it produces a colourless neutral gas that burns with a sooty flame is\_\_\_\_\_.

- A. calcium
- B. calcium oxide
- C. calcium carbide
- D. sodium peroxide
- E. sodium sulphate

45. During electrolysis of molten sodium,\_\_\_\_\_.

- A. sodium ion loses electron

- B. chlorine atom gains an electron
- C. chloride ion gains an electron
- D. sodium ion is oxidized
- E. chloride ion is oxidized

46. One of these sulphides is insoluble in dilute HCl.

- A.  $\text{Na}_2\text{S}$
- B.  $\text{ZnS}$
- C.  $\text{CuS}$
- D.  $\text{FeS}$
- E.  $\text{MgS}$

47. Local black soap is made by boiling palm oil with liquid extract of ash. The function of the ash is to provide the\_\_\_\_\_.

- A. acid
- B. esters of alkanolic acid
- C. alkali
- D. alkanol
- E. all of the above

48. Which of these is neutral to litmus in aqueous solution?

- A.  $\text{NH}_4\text{Cl}$
- B.  $\text{Na}_2\text{CO}_3$
- C.  $\text{FeCl}_3$
- D.  $\text{NaCl}$
- E. none

49. During the electrolysis of copper(II) tetraoxosulphate (VI) solution, which of these is discharged at the cathode

- A.  $\text{Cu}^{2+}$  only
- B.  $\text{H}^+$  only
- C.  $\text{Cu}^{2+}$  and  $\text{H}^+$
- D.  $\text{Cu}^{2+}$  and  $\text{SO}_4^{2-}$

50. An acid and its conjugate base\_\_\_\_\_.

- A. can neutralise each other to form salt
- B. differ only by a proton
- C. differ only by the opposite charges they carry
- D. are always neutral substances

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**ANSWERS TO 2014/2015  
UNIZIK QUESTIONS  
[SESSION 2]**

1. C 2. D 3. E 4. B 5. E 6. C 7. A 8. C 9. A  
10. D 11. B 12. D 13. D 14. C 15. D 16. C  
17. C 18. A 19. B 20. B 21. E 22. E 23. C  
24. D 25. C 26. E 27. A 28. D 29. C 30. C  
31. E 32. A 33. D 34. E 35. E 36. B 37. D  
38. A 39. A 40. B 41. D 42. C 43. C 44. B  
45. E 46. C 47. C 48. D 49. A 50. A

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**2015/2016 UNIZIK POST UTME QUESTIONS [SESSION 1]****TIME ALLOWED:** 10 Minutes**Choose the word opposite in meaning to the underlined word as used in the sentence**

1. Cynthia is very lazy. She will not take her studies seriously, her future looks quite

**bleak**.

- A. cloudy
- B. cheerless
- C. bright
- D. hug

2. The superintendent was **appalled** by the attitude of some of the employees towards their work.

- A. impressed
- B. disappointed
- C. provoked
- D. depressed

3. Frank is a disco addict. He takes his studies rather **lightly**.

- A. humorously
- B. tediously
- C. carefully
- D. seriously

4. Our most elected legislators are living a life of **affluence** and ostentation.

- A. influence
- B. pleasure
- C. poverty
- D. consequences

**Fill in the blank spaces in the following sentences making use of the best options**

5. The bridge connecting the two cities was \_\_\_\_\_ by the enemy.

- A. blown up
- B. blown down
- C. blown over
- D. blown away.

6. The World Bank team which visited the land locked country \_\_\_\_\_ a bleak economic future for it.

- A. Forecast
- B. discovered
- C. through of
- D. prophesize

7. If he had entered the room, I \_\_\_\_\_ him.

- A. saw
- B. had seen
- C. would have seen
- D. will see

8. The horse is a winner, \_\_\_\_\_.

- A. you can take that from me
- B. you can say I say
- C. you can take my word for it
- D. you may or may not believe it

9. Which of the following does not cause a reduction of the surface tension of water?

- A. detergent
- B. alcohol
- C. camphor
- D. grease

10. The following metals are extracted by electrolytic method except \_\_\_\_\_.

- A. potassium
- B. tin
- C. calcium
- D. magnesium

11. PMS (petrol) can be obtained from AGO (diesel) by \_\_\_\_\_.

- A. distillation
- B. cracking
- C. catalysis
- D. polymerization

12. If the gall bladder of a man is removed by surgery, which of the following processes will be most seriously affected?

- A. digestion of fats and oil
- B. digestion of starch
- C. conversion of proteins
- D. formation of urea

13. Which of these would not be limiting factor in photosynthesis?

- A. O<sub>2</sub>

- B. CO<sub>2</sub>
- C. Light
- D. chlorophyll

14. Phototropism is\_\_\_\_\_.

- A. a bilateral response to light
- B. a unilateral response to light
- C. both unilateral and bilateral response to light
- D. a hormonal gradient created within the organ

15. Which of the following is an example of discontinuous variation?

- A. skin coloration
- B. left-handedness
- C. body weight
- D. height

16. Insulin is secreted by the\_\_\_\_\_.

- A. gall bladder
- B. pancreas
- C. liver
- D. spleen

17. An object is positioned between two plane mirrors inclined at right angles to each other. The object is 1-unit distance from each mirror. The number of images formed is\_\_\_\_\_.

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

18. The temperature at which the water vapour present in the air saturates the air and begins to condense is known as\_\_\_\_\_.

- A. boiling point
- B. melting point
- C. critical temperature
- D. dew point

19. Which of the following elements is the best absorbed of x-rays?

- A. hydrogen
- B. oxygen
- C. copper
- D. lead

20. The heat from the sun reaches the earth by the process of\_\_\_\_\_.

- A. insulation
- B. conduction

- C. convection
- D. radiation

## **ANSWERS TO 2015/2016 UNIZIK QUESTIONS [SECTION 1]**

1. C 2. A 3. D 4. C 5. A 6. A 7. C 8. C 9. C  
10. D 11. B 12. A 13. A 14. B 15. B 16. B  
17. C 18. D 19. D 20. D

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**2015/2016 UNIZIK POST UTME QUESTIONS [SESSION 2]****TIME ALLOWED:** 10 Minutes**Choose the word(s) that is nearest in meaning to the underlined expression as used in the sentence**

- My choice of a partner would be based on character, not looks.  
A. visibility  
B. feasibility  
C. appearance  
D. posture
- Mike is very winsome yet his neighbour finds it difficult to put up with him.  
A. Stay with  
B. jive with  
C. tolerate  
D. rely on
- The Efik girl has just come out of the fettering room and her waist is adorned with beads.  
A. Surrounded  
B. decorated  
C. besieged  
D. deface

**Choose the Interpretation that you consider the most appropriate for each sentence**

- Joe is very down to earth. This means that Joe is \_\_\_\_\_.  
A. a good farmer  
B. rather short  
C. practical and sensible  
D. rough and dirty
- She delivered her speech without turning a hair. This means that she delivered her speech without \_\_\_\_\_.  
A. any emotion  
B. combing her hair  
C. nodding  
D. looking up

**Choose the word that best completes each of the following sentences**

- It is desirable you \_\_\_\_ there when he arrives  
A. be  
B. are  
C. will be  
D. should
- All the people in the bus died in that \_\_\_\_ accident.  
A. serious  
B. reckless  
C. fatal  
D. dangerous
- Mr. Okoye will never tell you everything: he is very \_\_\_\_\_.  
A. quiet  
B. realistic  
C. secretive  
D. reserved
- My friend and classmate \_\_\_\_ present when the boy jumped through the window.  
A. was  
B. were  
C. are  
D. is
- The soldiers pledged their \_\_\_\_ loyalty to the new Government.  
A. enduring  
B. tireless  
C. complete  
D. questionable
- An important a biotic factor affects plants and animals in their habitat is \_\_\_\_\_.  
A. turbidity  
B. rainfall  
C. wind direction  
D. temperature
- Movement of water through a semi-permeable membrane because the membrane moves or expands thus overcoming the resistance of hydrostatic pressure is referred to as \_\_\_\_\_.  
A. diffusion  
B. turgor pressure

- C. osmosis
- D. osmotic potential

13. The part of the brain that controls body posture in mammals is\_\_\_\_\_.

- A. thalamus
- B. cerebrum
- C. spinal cord
- D. cerebellum

14. The ability of an organism to survive in an environment is known as\_\_\_\_\_.

- A. adaptation
- B. secession
- C. competition
- D. residence

15. Dispersion of light by a glass prism is due to the\_\_\_\_\_.

- A. different speeds of the various colours in glass
- B. defects in the glass
- C. high density of glass
- D. different hidden colours of the glass

16. The astronomical telescope is said to be at normal adjustment when the\_\_\_\_\_.

- A. eye is accommodated
- B. final image is at infinity
- C. focal length of the objective lens is longer than that of the eyepiece
- D. unkind

17. Which of the following is not direct petroleum product?

- A. ethanol
- B. methane
- C. Vaseline
- D. kerosene

18. The green-house effect is a climate condition associated with the present of excess

- A. carbon (iv) oxide
- B. hydrogen sulphide
- C. ammonia gas
- D. nitrogen (ii) oxide

19. What is the amount (in mole) of sodium trioxocarbonate (iv) in 5.3g of the compound? (Na = 23; C = 12; O = 16).

- A. 0.05

- B. 0.10
- C. 0.50
- D. 0.20

20. Temporary hardness of water is removed by the use of the following except\_\_\_\_\_.

- A. boiling
- B. Ca(OH)
- C. Na<sub>2</sub>CO<sub>3</sub>
- D. Alum

## ANSWERS TO 2015/2016 UNIZIK QUESTIONS [SESSION 2]

1. C 2. C 3. B 4. C 5. A 6. B 7. C 8. D 9. A  
10. C 11. D 12. C 13. D 14. A 15. A 16. B  
17. A 18. B 19. A 20. D

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**2017/2018 UNIZIK POST UTME QUESTIONS [SESSION 1]****TIME ALLOWED:** 30 MINUTES

1. The government is making concerted efforts at providing essential social facilities in the rural areas \_\_\_\_\_.

- A. dissipated
- B. unconcreted
- C. unsuccessful
- D. uncontrolled

2. We cannot but talk about his **invaluable** contributions to the affairs of the society.

- A. worthless
- B. cost
- C. unrecognized
- D. incalculable

3. Men living in an extended family know that they have to be responsible for the welfare of some other person's children.

- A. externals
- B. nuclear
- C. neutral
- D. contracted

**Choose the word or group of words that best completes each of the following sentences**

4. Agnes is a very good friend on \_\_\_\_\_ I can rely.

- A. who
- B. whose
- C. which
- D. whom

5. A hotel is supposed to be a home away from home, but the one we \_\_\_\_\_ was bell away from home

- A. moved into
- B. checked
- C. dropped by
- D. checked into

6. Initially, we were deceived by the beautiful surroundings and by the manager's \_\_\_\_\_ which was warm and inviting.

- A. reception
- B. intention
- C. conviction
- D. conception

7. After the usual \_\_\_\_\_ and signing of forms, we were allowed into our rooms.

- A. feeling
- B. filing
- C. fill in
- D. filling

8. I ought \_\_\_\_\_ the letter by now.

- A. to be sent
- B. to have being sent
- C. to have sent
- D. to have to sent

9. Jane's fever was so acute that she \_\_\_\_\_ an injection.

- A. had to have
- B. had to had
- C. must have
- D. ought to have

**Choose the word or phrase closest in meaning to the underlined word**

10. But for the **principal** actor the play would have been dull.

- A. important
- B. head
- C. master
- D. famous
- E. main

11. An open car has no protection against the **elements**.

- A. weather
- B. emergency
- C. molecule
- D. atoms
- E. atmosphere

12. He was **reluctant** to grant my request

- A. disposed
- B. delight
- C. reticent
- D. unwilling
- E. agreeable

13. The detective was **perplexed** when the clues in the murder case pointed to at least a dozen different suspects.

- A. surprised
- B. confused



- C. excited
- D. discouraged
- E. disappointed

14. Rich citizens are often **niggardly** in their ways.

- A. beggarly
- B. sordid
- C. miserly
- D. pompous
- E. arrogant

15. The institution has a large **intake** of employees each year.

- A. rejection
- B. product
- C. furiously
- D. turn-out

**Choose the word(s) which will complete the corresponding sentences correctly.**

16. The answer to this sum is wrong, you \_\_\_\_\_ a mistake.

- A. must make
- B. must have made
- C. can have made
- D. may have made

17. Hurry up, it's time to go, surely, \_\_\_\_\_.

- A. can't be
- B. must be
- C. must's be
- D. can be

18. Bridget: have to go now Ada; Ada: surely you go yet.

- A. mustn't
- B. need to
- C. don't need to
- D. you don't have

19. When you are ready, you \_\_\_\_\_ go.

- A. may
- B. can't
- C. ought not to
- D. would

20. I wonder where Okeke is, he \_\_\_\_\_ by now.

- A. ought to arrive
- B. ought to have arrived
- C. must have arrived
- D. can't have arrived

**Choose the best of the options from the questions below**

21. In which of the following material would sound travel least.

- A. water
- B. oil
- C. metal
- D. gas

22. The ability of the eye lens distance on the retina is \_\_\_\_\_.

- A. Binocular
- B. Accommodation
- C. Hypermetropia
- D. colourization

23. When light is refracted which colour is the least refracted?

- A. red
- B. blue
- C. violet
- D. indigo

24. The frequency F of the fundamental note for a plucked wire is given by \_\_\_\_.

- A.  $\frac{v}{4L}$
- B.  $\frac{3L}{v}$
- C.  $\frac{v}{2L}$
- D.  $\frac{2v}{L}$

25. Which of the same quantities has same unit as Joules?

- A. Newton x Force
- B. Force x acceleration
- C. Newton x meter
- D. watt x Force

26. if the pile driver has a weight of 660N and is raised 20m. then energy of stationary pile is \_\_\_\_\_.

- A. 13200J
- B. 134003J
- C. 14200J
- D. 15200J

27. The V.R is independent of \_\_\_\_\_.

- A. Quality
- B. pulley

- C. friction
- D. frequency

28. Which of the following has the same unit as the moment of a force?

- A. force
- B. power
- C. work
- D. momentum
- E. charge

29. A lens of focal length 15.0cm forms an upright image four times the size of an object. Calculate the distance of the image from the lens.

- A. 11.3cm
- B. 18.8cm
- C. 37.5cm
- D. 45.0cm
- E. 75.0cm

30. The unit of quantity of electricity is called\_\_\_\_\_.

- A. amperes
- B. the volt
- C. the coulomb
- D. the ammeter

31. The maximum number of electrons that can be accommodated in the shell having the principal quantum number 3 is\_\_\_\_\_.

- A. 3
- B. 9
- C. 10
- D. 18
- E. 32

32. In which order are the following salts sensitive to light?

- A. AgI, AgCl, AgBr
- B. AgCl, AgI, AgBr
- C. AgBr, AgCl, AgI
- D. AgCl, AgBr, AgI

33. The pOH of a solution of  $0.25\text{mol dm}^{-3}$  of hydrochloric acid is\_\_\_\_\_.

- A. 12.40
- B. 13.40
- C. 14.40
- D. 14.60

34. Powdered marble reacts faster with hydrochloric acid solution than the granular

form because the powdered form has\_\_\_\_\_.

- A. more molecules
- B. more atoms
- C. large surface area
- D. relatively large mass

35. A phenomenon where an element exists in different forms in the same physical state is known as\_\_\_\_\_.

- A. Isomerism
- B. amorphism
- C. allotropy
- D. isotropy

36. When starch undergoes complete enzyme-catalysed hydrolysis, the resulting product is\_\_\_\_\_.

- A. glucose
- B. maltose
- C. sucrose
- D. fructose
- E. cellulose

37. The maximum number of electrons that can be accommodated in the shell having the principal quantum number 3 is\_\_\_\_\_.

- A. 3
- B. 9
- C. 10
- D. 18
- E. 32

38. The following acids are non-basic except\_\_\_\_\_.

- A. methanoic acid
- B. dioxinitrate (iii) acid
- C. ethanedoic
- D. oxochlorate (i) acid
- E. hydrobromic acid

39. Water can be obtained as the only product during\_\_\_\_\_.

- A. combustion of hydrogen
- B. chemical reaction
- C. combustion of Carbon
- D. electrolysis of brims
- E. boiling of water

40. The oxidation of ammonia in excess air produces\_\_\_\_\_.

- A.  $\text{N}_2\text{O}_2$
- B.  $\text{N}_2\text{O}$

- C. NO<sub>2</sub>
- D. N<sub>2</sub>O<sub>4</sub>
- E. NO

41. The gasification of coke is used for the manufacture of\_\_\_\_\_.

- A. Producer gas
- B. Natural gas
- C. Synthesis gas
- D. Industrial gas
- E. Artificial gas

42. The solubility curve shows the variation of solute concentration with\_\_\_\_\_.

- A. Volume
- B. Temperature
- C. Vapour
- D. Pressure
- E. Weight

43. The conversion of excess amino acids into urea occurs in the\_\_\_\_\_.

- A. kidney
- B. pancreas
- C. spleen
- D. liver

44. Where is the food stored in a yam plant?

- A. stem
- B. bud
- C. adventitious root
- D. tap root.

45. Growing yam tendrils climb for support. This growth response is\_\_\_\_\_.

- A. haptotropism
- B. geotropism
- C. hydrotropism
- D. chemotropism

46. Which of the following structures is capable of producing more tissues in the stem of an herbaceous flowering plant?

- A. Epidermis
- B. Pericles
- C. xylem
- D. cambium

47. In millions test, when the reagent is added to a protein food item, a white precipitate is produced which turns\_\_\_\_\_.

- A. blue on heating
- B. yellow on heating

- C. green on heating
- D. red on heating

48. Regulation of blood sugar level takes place in the\_\_\_\_\_.

- A. pancreas
- B. ileum
- C. liver
- D. kidney

49. In which of the following groups of animals is the Malpighian tubule found?

- A. lizards, snakes and frogs
- B. crickets, houseflies and grasshoppers
- C. millipede, centipedes and scorpions
- D. earthworms, roundworms and flatworms.

50. Which of following is not true about nucleus of a living cell? It contains

- A. chromosomes
- B. nucleus
- C. nucleoplasm
- D. chromatids
- E. ribosomes

### ANSWERS TO 2017/2018 POST UTME QUESTIONS

1. D 2. A 3. B 4. D 5. D 6. A 7. C 8. C 9. D  
 10. E 11. A 12. D 13. B 14. C 15. D 16. D  
 17. B 18. D 19. A 20. B 21. D 22. B 23. A  
 24. C 25. C 26. A 27. B 28. D 29. E 30. C  
 31. D 32. D 33. B 34. C 35. C 36. A 37. D  
 38. E 39. A 40. E 41. A 42. B 43. D 44. A  
 45. A 46. A 47. D 48. A 49. B 50. E

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**2017/2018 UNIZIK POST UTME QUESTIONS [SESSION 2]****TIME ALLOWED:** 30 MINUTES

**Choose the option opposite in meaning to the following that is underlined in each of the following sentences**

- Batho's response **infuriated** his wife.
  - annoyed
  - pleased
  - surprised
  - confused
- Language teachers believe that grammar exercises **stretch** the mind.
  - expand
  - ruin
  - enrich
  - restrict
- Mr. Chris accepted a **mundane** task without hesitation.
  - great
  - lowly
  - menial
  - moderate

**Choose the word opposite in meaning to the underlined word and at the same time correctly fill the gap in the sentence**

- Mathias prefers fame in the village to \_\_\_\_\_ in the city.
  - neglect
  - ignorance
  - poverty
  - obscurity
- While the registrar considers the matter insignificant his deputy sees it as \_\_\_\_\_.
  - crucial
  - minute
  - compulsory
  - real
- In our area, participation in community development programme is purely **voluntary**.
  - compulsory
  - necessary
  - optional
  - personal

- It is amazing that unlike her twin sister who is very **bold** Pedro is very \_\_\_\_\_.
  - cruel
  - timid
  - reserved
  - ambitious

**Choose the word(s) or phrase(s) which best fills the gap.**

- Four engineers \_\_\_\_\_ on the system since march.
  - worked
  - are working
  - had worked
  - have been working
  - has been working
- I sent \_\_\_\_\_ news to the press yesterday.
  - parcel
  - a flash
  - a number
  - a bunch
  - an item
- It is high time we \_\_\_\_\_ home.
  - go
  - went
  - are going
  - gone
  - have gone
- Whenever John puts the light on someone to disturb him.
  - came
  - has come
  - comes
  - would come
- It \_\_\_\_\_ be taken for repair after all: It's working again.
  - couldn't
  - shouldn't
  - mightn't
  - needn't
- The two tasks were performed \_\_\_\_\_ and we were able to finish early.
  - alternatively
  - simultaneously

- C. consecutively
- D. separately

14. The signature on the document lacked\_\_\_\_\_ so it was rejected.

- A. clarity
- B. authenticity
- C. formality
- D. simplicity

15. Clement hates\_\_\_\_\_ in suspense.

- A. been kept
- B. being kept
- C. having been kept
- D. keeping

16. The teacher had hardly turned his back\_\_\_\_ the class became noisy.

- A. hence
- B. then
- C. when
- D. than

17. He promised to see us next month, \_\_\_\_\_?

- A. wasn't he
- B. didn't he
- C. didn't we
- D. isn't it

**Choose the word or phrase closest in meaning to the underlined word(s)**

18. Ego is an absolute **knockout**

- A. Ego is a great boxer
- B. Ego has been knocked out
- C. Ego is exceptionally attractive
- D. Ego usually knocks out her opponents

19. The courtyard has remained **verdant**.

- A. Evergreen
- B. fertile
- C. sterile
- D. overgrown

20. The judges found the features of the beauty queen **intimidating**.

- A. fearful
- B. staggering
- C. overwhelming
- D. frightening

21. The governor's address during his recent visit to our town was delivered **extempore**.

- A. without formal preparation
- B. timely
- C. off-hand
- D. expertly

22. The candidate was disqualified as a result of his **irreverent** behaviour.

- A. shameful
- B. disrespectful
- C. careless
- D. abnormal

**Choose the best of the options from the questions below**

23. Smoke consists of \_\_\_\_\_.

- A. solid particle dispersed in liquid
- B. solid or liquid particles dispersed in gas
- C. gas or liquid particles dispersed in liquid
- D. liquid particles dispersed in liquid

24. Sieving is a technique used to separate mixtures containing solid particles of \_\_\_\_\_.

- A. small sizes
- B. large sizes
- C. different sizes
- D. the same size
- E. one size

25. Polyvinyl chloride is used to produce\_\_\_\_\_.

- A. bread
- B. pencils
- C. ink
- D. pipes
- E. pots

26. In the extraction of iron in the blast furnace, lime stone is used to\_\_\_\_\_.

- A. release CO, for the reaction
- B. reduced the iron ore
- C. increase the strength of the iron
- D. remove impurities

27. How many moles of oxygen molecules will be produced from the decomposition of 2.5moles of potassium trioxochlorate (V)

- A. 2.50
- B. 3.60
- C. 3.75
- D. 7.50
- E. 0.5

28. The carbon atoms of ethane are\_\_\_\_\_.

- A.  $sp^2$  hybridized
- B.  $sp^3$  hybridized
- C.  $sp^3d$  hybridized
- D.  $sp$  hybridized
- E.  $sd$  hybridized

29. Which of the following elements will burn in excess oxygen to form a product that is neutral to litmus?

- A. carbon
- B. hydrogen
- C. sulphur
- D. sodium

30. Complete hydrogenation of oils results in the production of\_\_\_\_\_.

- A. soaps
- B. detergent
- C. alkaline
- D. butter
- E. margarine

31. Producer gas with low calorific value because it contains more\_\_\_\_\_.

- A.  $CO_2$  than  $O_2$
- B.  $N_2$  than  $CO$
- C.  $CO_2$  than  $N_2$
- D.  $N_2$  than  $CO_2$

32. Which of these compounds exhibits resonance?

- A. benzene
- B. ethanol
- C. Propene
- D. butyne

33. To determine the weight of an object you would\_\_\_\_\_.

- A. use a balance
- B. use a spring balance
- C. find the force necessary to give it a certain acceleration
- D. use none of these methods
- E. use any of these methods

34. Find the heat produced in an electric coil of resistance 12 Ohms when a current of 5 amperes flow through it for 10 minutes?

- A. 2000J
- B. 4000J
- C. 3000J
- D. 4000J
- E. none

35. Which of the following correctly gives the relationship between linear speed  $v$  and angular speed  $w$  of a body moving uniformly in circle of radius  $r$ ?

- A.  $v = wr$
- B.  $v = w^2r$
- C.  $v = wr^2$
- D.  $v^2 = wr$
- E.  $v.wr$

36. Which of the following is used to determine the relative density of the acid in a car battery?

- A. hypsometer
- B. hygrometer
- C. manometer
- D. hydrometer
- E. spectrometer

37. The frequency  $F$  of the fundamental note for a plucked wire is given by\_\_\_\_\_.

- A.  $\frac{V}{4L}$
- B.  $\frac{V}{3L}$
- C.  $\frac{V}{2L}$
- D.  $\frac{2V}{L}$

38. Suppose the potential difference of 2.4v at a current of 0.2A. Find the resistance.

- A. 14 $\Omega$
- B. 12  $\Omega$
- C. 16  $\Omega$
- D. 20  $\Omega$

39. Which of the following has the same unit as the moment of a force?

- A. force
- B. power
- C. work
- D. momentum
- E. charge

40. The half-life of a radioactive element is 9 days. Calculate the fraction that remains after 36 days?

- A.  $\frac{1}{32}$
- B.  $\frac{1}{16}$
- C.  $\frac{1}{4}$
- D.  $\frac{15}{32}$

41. The light from the sun reaches the earth mainly by\_\_\_\_\_.

- A. Convection

- B. Conduction
- C. radiation
- D. reflection

42. The most abundant source of energy in the body is\_\_\_\_\_.

- A. Proteins
- B. lipids
- C. carbohydrates
- D. minerals

43. Haemophilia is associated with deficiency of\_\_\_\_\_.

- A. folic acid
- B. blood clotting factors
- C. niacin
- D. Vitamin B<sub>1</sub>

44. Which of the following has mammary gland?

- A. whale
- B. dogfish
- C. catfish
- D. shark

45. In the nephron, reabsorption of water takes place in the\_\_\_\_\_.

- A. bowman's capsule
- B. glomerulus
- C. renal tubules
- D. selective membranes

46. When two parents are crossed the offspring are referred to as\_\_\_\_\_.

- A. recessives
- B. test cross
- C. f<sub>1</sub> generation
- D. F<sub>2</sub> generation

47. Which of these will not be a limiting factor in photosynthesis?

- A. O<sub>2</sub>
- B. CO<sub>2</sub>
- C. Chlorophyll
- D. Light

48. Which of the following food substances is digested in the stomach?

- A. carbohydrates
- B. fats and oil
- C. fats and proteins
- D. carbohydrate and fats

49. Growing yam tendrils climb for support. This growth response is\_\_\_\_\_.

- A. haptotropism
- B. geotropism
- C. hydrotropism
- D. chemotropism

50. Which of the following is an example of discontinuous variation?

- A. skin coloration
- B. left-handedness
- C. body weight
- D. height

## **ANSWERS TO 2017/2018 UNIZIK QUESTIONS [SESSION 2]**

1. B 2. D 3. A 4. A 5. A 6. A 7. B 8. D 9. E

10. B 11. C 12. D 13. B 14. B 15. B 16. D

17. B 18. C 19. A 20. C 21. C 22. B 23. B

24. C 25. D 26. D 27. C 28. B 29. B 30. E

31. B 32. A 33. E 34. C 35. A 36. D 37. B

38. B 39. C 40. B 41. C 42. B 43. B 44. B

45. A 46. C 47. A 48. C 49. A 50. B

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