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POST UTME PAST QUESTIONS FOR FACULTY OF ENGINEERING
AND ENVIROMENTAL SCIENCE

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UNIZIK POST-UTME PAST QUESTIONS FOR FACULTY OF ENGINEERING AND ENVIRONMENTAL SCIENCES

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. 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

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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. A rectangular picture 6cm x 8cm is enclosed by a frame V-Z cm wide. Calculate the area of the frame.
A. 15 sq.cm
B. 20 sq.cm
C. 13 sq.cm
D. 16 sq.cm
E. 17 sq.cm

32. If the four interior angles of a quadrilateral are $(p + 10)°$, $(p−30)°$, $(2p−45)°$ and $(p + 15)°$, then P is_____.
A. 125°
B. 82°
C. 135°
D. 105°
E. 60°

33. The annual profits of a transport business were divided between the two partners A and B in the ratio 3:5, if B received ₦3,000 more than A, the total profit was?
A. ₦5,000
B. ₦1,800
C. ₦12,000
D. ₦24,000
E. ₦8,000

34. In a school, there are 35 students in class 2A and 40 in class 2B. The mean Score for class 2A in an English Literature examination is 60.0 and that for 2B in the same paper is 52.5. Find to one place of decimal, the mean for the combined classes.
A. 1.5
B. 56.0
C. 56.2
D. 56
E. 56.5

35. Which of the following fractions is less than one-third?
A. $\frac{22}{63}$

B. $\frac{4}{11}$

C. $\frac{15}{46}$

D. $\frac{33}{98}$

E. $\frac{122}{363}$

36. A baking recipe calls for 2.5kg of sugar and 4.5kg of flour. With this recipe, some cake were baked using 24.5kg, of a mixture of sugar and flour. How much sugar was used?
A. 12.25kg
B. 6.75kg
C. 8.75kg

D. 15.75kg
E. 8.25kg

37. If ₦560.70 is shared in the ratio 7:2:1, what is the smallest share?
A. ₦392.4
B. ₦56.70
C. ₦113.40
D. ₦112.14
E. ₦56.07

38. If $2x + 3y = 1$ and $x - 2y = 11$, Find $(x + y)$
A. 5
B. -3
C. 8
D. 2
E. -2

39. A sum of money was invested at 8% per annum simple interest. If after 4 years, the money amounts to ₦330, find the amount originally invested
A. ₦180
B. ₦165
C. ₦150
D. ₦200
E. ₦250

40. If m=3, p= -3, q=7 and r=$^5/_2$, evaluate m (p + q+ r)
A. 19.50
B. 19.15
C. 18.95
D. 18.05

41. A man walks 1km due east and then 1km due north. His displacement is
A. 1 km N15°E
B. 1 km N30°E
C. $\sqrt{2}$km N45°E
D. $\sqrt{2}km$ N5O°E
E. $\sqrt{2}km$ N75°E

42. A palm fruit dropped to the ground from the top of a tree 45m tall. How long does it takes it to reach the ground? (g= 10ms^{-2})
A. 9s
B. 4.5s
C. 6s
D. 7.5s
E. 3s

43. Of the following which is different from the others?
A. x-rays

B. gamma rays
C. cathode ray
D. ultraviolet rays
E. Infrared rays

44. Which of the following elements are real magnetic materials?
A. Iron, Steel and Nickel
B. Copper, Steel and iron
C. Lead, Iron and Brass
D. Glass, Lead and Steel
B. Stone, Air and Iron

45. A 10g mass placed on the pan of a balance causes an extension of 5cm. if a 15g mass is placed on the pan of the same spring balance the extension is:
A. 3.3cm
B. 6.5cm
C. 7.5cm
D. 10.8cm
E. 15.0cm

46. If the pressure on 100cm^3 of ideal gas doubled while its Kelvin temperature halved, then the new volume of the gas will become
A. 25cm^3
B. 50cm^3
C. 100cm^3
D. 200cm^3
E. 400cm^3

47. A substance has a half-life of 3 min. After 6 min, the count rate was observed to be 400. What was its count rate at zero time?
A. 200
B. 1200
C. 1600
D. 2400
E. 800

48. A room is heated by means of a charcoal fire. An occupant of the room standing away from the fire is warmed mainly by_____.
A. Convention
B. radiation
C. conduction
D. reflection
E. induction

49. When an atom loses or gains a charge becomes____.
A. an electron

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B. an ion
C. neutron
D. proton
E. a cathode

50. The process of energy production in the sun is____.
A. nuclear fission
B. nuclear fusion
C. electron collision
D. radioactive decay
E. electron transfer

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

38. D 39. E 40. A 41. C 42. E 43. C 44. A

45. C 46. A 47. C 48. B 49. B 50. B

2007/2008 UNIZIK POST UTME QUESTIONS

TIME ALLOWED: 1 Hour

Read this passage carefully answer the question that follow it

All over the world till lately and in most of the world till today, mankind has been following the course of nature; that is to say it has been breeding up to the maximum. To let nature take her extravagant course in the reproduction of the human race may have made sense in an age in which we are if we were also letting her take her course in decimating mankind by the causalities of war, pestilence and famine. Being human, we have at least revolted against the senseless waste. We have started to impose on nature's heartlessness, a humane new order of our own. But once man has begun to interfere with nature, he cannot afford to stop halfway. We cannot, with impunity, cut down the death rate to go on taking nature's course. We must consciously try to establish equilibrium, or sooner or later, famine will stalk aboard again.

1. The author observes____.
A. war, pestilence and famine were caused by the extravagance of nature
B. nature "was heartless and senseless,
C. There was a time when uncontrolled birth made sense
D. there was a time when mankind did not interfere with normal reproduction
E. Nature was heartless in normal reproduction process

2. Which of these statements does not express the option of the author?
A. mankind has started to interfere with the work of nature
B. many people had died in the past through want and disease,
C. mankind should not have the maximum number of children possible
D. man's present relationship with nature in matters of birth and death is a happy one

3. Humane, as used in the passage means____.
A. sensible
B. wise
C. human
D. benevolent
E. thorough

4. we must consciously try to establish an equilibrium; implies that mankind must_____.
A. realistically find an equation
B. man should control the birth rate
C. pestilence causes more death than war
D. man should change nature's course gradually

5. The main idea of this passage is that_____.
A. nature is heartless
B. man shall control the birth rate
C. man will soon perish of starvation
D. pestilence causes more death than war

Each of the following words is offered in its corns, from and in some, the incorrect forms. Indicate the correct spelling

6. A. fullscap
B. foolscap
E. fulscap
D. folscap

7. A. perseverance
B. perservarance
C. perserverance
D. persevereance

8. A. sorvinir
B. souvenicr
C. souvenir
D. souvenire

9. A. momento
B. memento
C. mormento
D. mementor

10. A. mischievious
B. mischeivous
C. mischievous
D. mischicveous

11. A. dormant
B. clamant
C. dormant
D. doomant

12. A. bureaucracy
B. beureaucracy
C. burreacracy
D. bcureccracy

13. A. aestetic
B. aesthetic
C. acsthcthic
D. acstcthic

14. A. Accessory
B. acesory
C. accesory
D. assessor

15. A. abattar
B. abbattoir
C. abattoir
D. abatoir

16. A. balustar
B. ballustar
C. bafluster
D. baluster

17. A. attrition
B. atrition
C. atrition
D. attrittion

18. A. corroboration
B. coroborction
C. coiroborassion
D. coroborassion

Select the wrongly spelt words in these questions

19. A. dissappointed
B. embarrassed
C. equipped
D. rhythm

20. A. occurrence
B. surprise
C. personel
D. possess

21. A. quiet
B. bilieve
C. precede
D. opportunity

Choose the option opposite in meaning to the word(s) underlined.

22. Mr. Agu was most **flexible** in his instructions.
A. rigid
B. correct
C. stiff
D. upright

23. The university has offered **temporary** accommodation to its staff.
A. popular
B. permanent
C. recognized
D. regular

24. Mary complained that she slept on the **coarse** floor.
A. smooth
B. rough
C. bad
D. harsh

25. Tony was one of the **spectators** at the concert.
A. usher
B. judges
C. guests
D. performers

26. The Governor **declined** to give audience to the journalists.
A. ignored
B. accepted
C. forgot
D. rejected

27. The debtor's husband is **liable** for his wife's debts.
A. unanswerable
B. responsible
C. unquestionable
D. accountable

28. The lotion recommended by the doctor **soothed** Chinwe's aching tooth.
A. calmed
B. exerted
C. worsened
D. extracted

29. The sun cast its **shadow** on the wall.
A. reflection
B. rays
C. substance
D. resemblance

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30. He was **locked up** for a week.
A. released
B. punished
B. remanded
D. locked out

31. The lady acted **courageously** when thieves attacked her.
A. shyly
B. fearlessly
C. severe
D. sour

32. To most people last Christmas was an **austere** period.
A. prosperous
B. harsh
C. severe
D. sour

33. The chief was **generous** in his award, of university scholarship.
A. noble
B. honest
C. mean
D. garrulous

34. Chidi is naturally taciturn.
A. friendly
B. dumb
C. lively
D. garrulous

35. He is loved for **altruism**.
A. sincerity
B. benevolence
C. kindness
D. kindness

Choose the option nearest meaning to the word(s) underlined.

36. You are **free** to leave the hall.
A. at an advantage
B. opportune
C. at liberty
D. right

37. The armed-robbers will **surrender** their loot to the customs officials.
A. give away
B. give out
C. give in
D. give up

38. The discussion became **animated** when the professor came in.
A. specialized
B. lively
C. intellectual
D. unruly

39. Rich citizens are often **niggardly** in their ways.
A. beggarly
B. sordid
C. miserly
D. pompous

40. The musician's popularity is beginning to **decline**.
A. change
B. wane
C. slide
D. disappear

41. A temperature of 20°C is the same as____.
A. 36°F
B. 68°F
C. 11.1°F
D. 25°F

42. Three 5 ohms resistors connected in parallel have a potential difference of 60v applied across the combination. The current in each resistor is____.
A. 4A
B. 35A
C. 12A
D. 24A

43. An object lcm placed on the axis 15cm from a converging lens forms an image 30cm from the lens. The size of the image is:
A. 0.5cm
B. 2.0cm
C. 1.5cm
D. 2.5cm

44. When the vapour of a substance is in equilibrium with its own liquid, it is said to be____.
A. gaseous
B. liquefied
C. saturated
D. diffused

45. Which of the following statements is correct? The reading of pressure of a

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mercury barometer is independent of_____.
A. the atmospheric pressure
B. the cross-sectional area of the tube
C. the density of mercury
D. the temperature of mercury

46. The motion of the moving skin of a talking drum can rightly be described as_____.
A. rotational
B. oscillatory
C. transitory
D. random

47. A pressure cooker saves both time and fuel in cooking because inside the cooker, the_____.
A. pressure is constant
B. heat is completely trapped
C. temperature is evenly distributed
D. boiling point of water is increased

48. The name given to the characteristic behaviour of substances, which set with their length perpendicular to a strong magnetic field instead of in line with it is____.
A. magnet
B. magnetization
C. Para magnetism
D. ferromagnetism

49. According to ohms law, the ratio V/R is constant for_____.
A. an electrolyte
B. a diode
C. an electrode
D. a conductor

50. Which of the following is not an effect that can be produced by an electric current?
A. heat
B. light
C. motion
D. none of the above

51. An example of a scalar quantity is_____.
A. velocity
B. weight
C. electric charge
D. acceleration due to gravity

52. A liquid in glass thermometer should quickly register temperature changes. This is achieved by choosing a liquid that_____.

A. is opaque
B. has a high density
C. has a high thermal conductivity
D. has a regular expansion

53. The-tire pressure of a car was found to be 150cm Ho in the morning of a temperature 27°C, driving in the afternoon raised the temperature of the tire to 57°. The tire pressure in the afternoon had_____.
A. increased by 22.5cmHg
B. increased by the 15.0cmHg
C. decreased by 15.0cmHg
D. decreased by 22.5cmHg

54. The force responsible for the moon to remain in its orbit around the earth against the gravitational pull of the earth is____.
A. centrifugal
B. rotational
C. centripetal
D. translational

55. A hydrometer is an instrument for measuring the_____.
A. density of water in a vessel
B. relative density of a liquid by the method of allocation
C. relative density of a liquid by finding the apparent loss in weight
D. relative humidity of the air

56. The point beyond which a stretched spring does not return to its original length is called____.
A. breaking point
B. elastic limit
C. release point
D. spring constant

57. The unit of quantity of electricity is called_____.
A. the ampere
B. the volt
C. the coulomb
D. the ammeter

58. What is the apparent colour of red shirt when viewed in pure green light?
A. red
B. green
C. black
D. blue

59. A device that converts sound energy into electrical energy is_____.

A. the horn of a motor car
B. a loud speaker
C. a microphone
D. the telephone earpiece

60. Which of the following can be used to illustrate the Brownian motion?
A. suspension of sculpture in the water viewed under a microscope
B. smoke in glass container illuminated by a strong light from the side
C. a dusty room swept and viewed through a beam of sunlight
D. boiled distilled water viewed under sunlight

61. The following can be uses sulphur except____.
A. prevention of the growth of fungi
B. vulcanization of rubber
C. manufacture of dyes
D. coating of steel to prevent rusting

62. A cone in an unstable equilibrium has its potential energy____.
A. decreased
B. increased
C. uncharged
D. oscillating
E. none of the above

63. An acid present in protein is_____.
A. lactic acid
B. amino-acid
C. palmitic-acid
D. stearic acid

64. The noble gas argon is used for_____.
A. electric welding
B. welding brass
C. under water welding
D. steel welding

65. Phosphorus is stored under water to prevent it from_____.
A. smelling
B. dehydrating
C. catching fire
D. becoming inert

66. Which of the following compound is aromatic?
A. benzene
B. hexane
C. cyclobutane
D. cyclopentane

67. Which of the following does not a fleet the rate of chemical reaction?
A. concentration of the reactant
B. addition or presence of a catalyst
C. size of the reacting particles
D. the enthalpy change for the reaction

68. A salt which loses mass when exposed to air is?
A. hygroscopic
B. delinquent
C. efflorescent
D. hygroscopic effervescent

69. Which of the following statement is not correct?
A. carbon exhibits allotropy
B. sulphur exhibits allotropy
C. chlorine exhibits allotropy
D. nitrogen is a gas

70. Now many carbon atoms arc there in the benzene ring?
A. 4
B. 5
C. 6
D.8

71. Why is potassium oxide added to the electrolyte in the extraction of sodium from fused, sodium chloride?
A. pure sodium chloride does not conduct electricity
B. potassium chloride prevents the sodium produced from attacking the electrodes
C. potassium fluoride acts as a catalyst
D. potassium fluoride reduces the temperature at which chloride fuses

72. Which of the following is used extensively in photographic manufacturing chemical?
A. Aluminium chloride
B. zinc chloride
C. silver chloride
D. chloride

73. Catalytic hydrogenation of oil result in the production of____.
A. soap
B. detergent
C. butter
D. margarine

74. A sample of orange juke is suspected to be contaminated with a yellow dye. Which

of the following methods can he used to detect the dye?
A. decantation
B. chromatography
C. distillation
D. evaporation

75. When a solid melts and consequently, boils there is_____.
A. A gradual increase in the average kinetic energy of the particles
B. A sudden decrease in the kinetic energy of the particles
C. A rapid change in the nature of bonding of the components
D. A change in the size of the fundamental particles

76. Which of the following compounds will undergo addition reaction
A. Ethyne
B. Butane
C. pentane
D. Ethanol

77. A catalyst which increases the rate of chemical reaction does so by
A. increasing the reaction pathway
B. increasing the surface area of the reactant
C. decreasing the temperature at which the reactant occurs
D. decreasing the activation energy of the reaction

78. Which of the following correctly explains entropy?
A. the natural tendency for a system to achieve a greater disorder
B. a measure of the rate of attaining equilibrium in a reversible reaction
C. the cause of spontaneity of a reaction
D. a measure of the enthalpy of a reaction

79. The gas that is liberated when iron is heated with concentrated tetraoxosulphate (vi) acid is_____.
A. HS
B. SO
C. O_2
D. SO_2

80. Which of the following pollutants is biodegradable?
A. sewage
B. plastic

C. lead compound
D. hydrogen supplied

81. $X2-4=0$, the x=?
A. 4
B. 2
C. -2
D. none of the above

82. After getting rise of 15%, a man's monthly salary is ₦345, How much per month, did he earn before the increase'?
A. ₦330
B. ₦360
C. ₦300
D. ₦396.75

83. A solid cylinder of radius 3cm has a total surface area of 6Ucm2, find its height.
A. 2cm
B. 3cm
C. 4cm
D. 6cm

84. The median of the set of numbers 4, 9, 4, 13, 7, 14, 10, 17 is __.
A. 13
B. 7
C. 1
D. $^{19}/_{12}$

85. 7 pupils of average age 12 years, leaves a class of 25 pupils of average age of 14 years. If 16 new pupils of average age 11 years joined the class. What is the of pupils now in the class?
A. 13 years
B. 10 months
C. 11 years
D. 12 years

86. Divide the L.C.M of 48. 64 and 80 by their H.C.F
A. 20
B. 30
C. 48
D. 60

87. Of the nine hundred students admitted in university in 2000. The following are distribution by state of origin: Anambra-185, Imo 135, Kaduna-90, Kwara-110, ondo-155, oyo-225. If a pie chart drawn to represent this distribution, the single subtended at the centre by Anambra state is____.

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A. 50°
B. 65°
C. 74°
D. 88°

88. Find the least length of a rod which can be cut into exactly equals strips each can 40cm by 48cm length
A. 120cm
B. 240cm
C. 360cm
D. 480cm

89. A rectangular lawn has an area of 1815 square yards. If its length is 50 meters, find its width in meters given that 1 metre equals 1.1 yard.
A. 39.93m
B. 35.00m
C. 33.00m
D. 30.00m

90. A car moves from P to Q at an average speed of 90km/h and immediately returns from Q to P through the same route at an average speed of 60km/h. find the average speed for the entire journeys.
A. 55km/h
B. 60km/h
C. 67.50km/h
D. 75km/h

91. In a school 220 students offer biology or mathematics or both, 125 offer biology and 110 mathematics. How many students offer biology but not mathematics?
A. 95
B. 80
C. 125
D. 110

92. The time taken to do piece of work is inversely proportional to the number of men employed. If it takes 45men to do a piece of work in 5 days, how long will it take 25men?
A. 15days
B. 5days
C. 22 days
D. 9days

93. Simplify $52.4 - 5.7 - 3.45 - 1.75$
A. 41.1
B. 41. 5
C. 24.1
D. 24.2

94. A trader bought goats for N4,000.00 each. He sold them for ₦180,000 at a loss of 25% How many goats did he buy?
A. 60
B. 50
C. 45
D. 36

95. A 5.0g of salt was weighed by Amaka is 5.1g. What is the percentage error?
A 20%
B. 2%
C. 1%
D. 0.2%

96. Find correct to one decimal place $\frac{0.24633}{0.306}$
A. 0.8
B. 1.8
C. 8.0
D. 8.1

97. A basket contains green, black and blue balls in the ratio of 5:2:1. If there are 10 blue balls, find the corresponding net ratio when 10 green and 10 black balls are removed from the basket.
A. 1:1:1
B. 4:2:1
C. 4:1:1
D. 5:1:1

98. Factorize completely $(x-1)^2-(2x + 2)^2$
A. $(x+1)(9x+2)(x-2)$
B. $(x-1)^2(x-2)^2$
C. $(x + 1)^2 (x+2)^2$
D. $(3x+3) (-x-1)$

99. A student calculated the mean of five numbers as 45.3. While rechecking his working, he discovered that his total was short by 0.05. What is the correct mean of the five numbers?
A. 24
B. 1.2
C. 49.4
D. 45.31

100. A man bought a second-hand car for ₦250,000.00 and spent ₦70,000.00 refurbishing it. He then sold the car for ₦1,000,000.00. What is the percentage gain?
A. 20%
B. 25%

C. 32%
D. 212.5%

ANSWERS to 2007/2008 UNIZIK QUESTIONS

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

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

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

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

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

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

45. D 46. B 47. D 48. C 49. D 50. D 51. C

52. C 53. B 54. C 55. C 56. B 57. C 58. C

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

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

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

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

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

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

2009/2010 UNIZIK POST UTME QUESTIONS

Time Allowed: 1 Hour

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

1. The old ear_____ several times this year.
A. was repaired
B. has been repaired
C. had been reared
D. was being repaired

2. You should show some consideration _____the feeling of others.
A. with
B. to
C. about
D. for

3. If he had entered the room, I _____ him.
A. saw
B. had seen
C. would have seen
D. will see

4. The horse is a winner_____.
A. you can take that from me
B. you can say I say so
C. you can take my word for it
D. you may or may not believe it

5. If we went to any European country, _____Britain, we would need a substantial amount of money to pay our way.
A. like
B. let us say
C. as an example
D. if we say

6. _____it might not look such a rosy proposition.
A. From his viewing proposal
B. when he views the proposal
C. having viewed the proposal.
D. from his point of view

7. Emeka _____ as a mechanic when he was young, but now he is a driver.
A. Had been working
B. used to work
C. would have worked
D. had work

8. The students _____ so much noise while the lecturer had to walk out of the class.
A. made
B. had been making
C. were making
D. had made

9. In the past, his father used to walk but nowadays he _____to work by bicycle.
A. Was going
B. seldom goes
C. goes
D. is going

10. By the end of the next semester, he _____his university education.
A. Would have completed
B. will be completing
C. shall have
D. must complete

11. The telephone_____ in the nineteenth century and is now used in most countries in the world
A. had been invented
B. was invented
C. has been invented
D. would have been invented

12. The way to stop some frivolous publication is to_____ the press.
A. gag
B. shackle
C. bind
D. handcuff

13. The exercise must be done _____possible.
A. as quick as
B. as quicker as
C. as quickly as
D. as most quickly as

14. For their part in the unsuccessful_____ the mutineer were court-martialled.
A. couper
B. coupes
C. coupe
D. coup

15. The chairman ruled the impertinent speaker_____.
A. according to order
B. out of order

14

E. correctly
D. contrary to order

16. Your approach to the problem is different_____ ours.
A. as
B. like
C. from
D. to

17. They_____ our donation with thanks.
A. revived
B. recieved
C. received
D. receipt

18. You surely want_____ in your tea, don't you?
A. All milk
B. a milk
C. some milk
D. any milk

19. Although he was invited to the party_____ he was not welcomed.
A. but
B. yet
C. so
D. because

20. I told him_____ he had no chance.
A. Quite by frankly
B. quite frankly
C. quite in frankness
D. quite being frank

21. The passenger waited patiently whilst they transferred his___from the taxi to the bus.
A. properties
B. baggages
C. luggage
D. baggages

Choose the word or phrase from A to D which has the nearest to the underlined word or words in each of the following sentences

22. He used his saving to **bring up** his nephew.
A. Accompany
B. feed
C. lead
D. support

23. Mary is **jealous** of her sister's success.
A. suspicious
B. bitter
C. mindful
D. envious

24. Our school prefect is too **officious** and all of us hate him because of his behaviour.
A. efficient
B. efficacious
C. over-zealous
D. showy

25. The present of our club has sent his **regrets**. He may be unable to attend the next meeting
A. confusion
B. explanations
C. sadness
D. apologies

26. Whenever I travel abroad, I always bring on new return, photographs, postcards and other small items as **souvenirs**.
A. mementoes
B. mementoes
C. memorials
D. remember

27. Because our representative in the national house assembly is an immature and biased politician, he takes **jaundiced** view of our social and economic problems.
A. Hazy
B. unclear bright
C. prejudiced
D. bright

28. His wire for ten years refused **point-blank** leave her matrimonial home even when he brought another woman into the house.
A. boldly
B. pointedly
C. sharply
D. bluntly

29. In some parts of Nigeria, people are **ostracized** simply because of their ancestry.
A. abandoned
B. shut off their society
C. refused education
D. hated and rendered unhappy

30. One of the surest ways to ensure good health is to have a **wholesome** and adequate diet.
A. palatable
B. mixed
C. hygienic
D. health-giving

Choose the word opposite in meaning to the underlined word in each of the following sentences.

31. The doctor was very **gentle** with his patients in the examining room.
A. harsh
B. rude
C. rough
D. unkind

32. John is a disco addict. He takes his studio rather **lightly**.
A. humorously
B. tediously
C. carefully
D. seriously

33. My brother is very lazy. He will not take his studies seriously. His future looks quite **bleak**.
A. cloudy
B. cheerless
C. bright
D. huge

34. While our most recently elected legislators are living a life of **affluence** and ostentation, the vast majority of those who elected them into office are unhappy.
A. influence
B. pleasure
C. poverty
D. consequence

35. It is generally believed that **miser** is not loved by many
A. spenders
B. spendthrifts
C. consequences.
D. savers

36. My brother's primary school foundation was **solid** and this affected his secondary education.
A. sound
B. shaky
C. weak

D. sordid

37. Politicians and holders of political appointments are generally assumed to be **cunning**.
A. kind
B. generous
C. straightforward
D. sly

38. This card **entitles** you to attend the film show.
A. disqualifies
B. satisfies
C. discourages
D. proclaims

39. The increase in transport fares **deterred** our club from planning an excursion this year.
A. deferred
B. irritated
C. restricted
D. encouraged

40. The **severities** of the harmattan help me to complete my writing assignment in record time because had no choice but to lock myself indoors.
A. Warmth
B. mildness
C. leniency
D. gentility

41. Disgruntled people are **indifferent** to any plans to rid the society of evil.
A. Different from
B. opposed
C. in agreement with
D. interested in

42. The deafening noise of the two jet planes which flew across our compound yesterday made people fear that an assault on the country might he **imminent**.
A. impending
B. ahead
C. remote
D. eminent

43. Many untrustworthy students give **evasive** answers to question which they fully understand.
A. direct
B. simple
C. truthfully
D. clever

16

44. The Governor **upheld** the decision of the cabinet.
A. held up
B. abolished
C. reversed
D. maintained

45. He is loved for his **altruism**.
A. benevolent
B. sincerity
C. selfishness
D. kindness

46. James is naturally **taciturn**.
A. friendly
B. cheerful
C. lively
D. garrulous

47. To most people, last Christmas was an **austere** period.
A. prosperous
B. harsh
C. severe
D. sour

48. The chief was **generous** in his award of university scholarships.
A. Noble
B. considerate
C. liberal
D. mean

49. The explosive growth of world population has not been caused by a **sudden** increase in human fertility.
A. fantastic
B. gradual
C. combustible
D. dangerous

50. The supper Eagles lost the match because their goalkeeper was **in a haze** most of the time
A. indisposed
B. confused
C. alert
D. sleeping

51. The height at which the atmosphere ceases to exist is about 80km. if the atmospheric pressure at the ground is 760mmHg, the pressure at a height of 20km above the ground level is _____.
A. 38OmnHg
B. 570mmHg
C. 190mmHg
D. 480mmHg

52. A stone of mass 1 kg is dropped from a height of 10m above the ground and it falls under gravity. Its kinetic energy 5m above the ground is then equal to
A. its kinetic energy on the ground
B. twice its initial potential energy
C. its initial potential energy
D. half its initial potential energy

53. If a spherical metal bob of radius 3 cm is fully immersed in a cylinder containing water and the water level rises by 1 cm, what is the radius of the cylinder?
A. 12 cm
B. 1 cm
C. 3 cm
D. 6 cm

54. The resultant of two forces acting on an object is maximum if the angle between them is____.
A. 45'
B. 0°
C. 90°
D. 180°

55. The efficiency of a machine is always less than 100% because_____.
A. the work output is always greater than the work input
B. the load lifted is always greater than the effort applied
C. the effort applied is always greater than the load lifted
D. the velocity ratio is always greater than the mechanical advantage_

56. The thermometer substance of an absolute thermometer is_____.
A. alcohol
B. mercury
C. helium
D. platinum

57. Which of the following metals will provide the greatest shield against ionizing radiation?
A. iron
B. lead
C. manganese
D. aluminium

58. Energy losses through eddy currents arc reduced by using_____.
A. low resistance wire
B. insulated soft iron wires
C. few turns of wire
D. high resistance wires

59. Which of the following instrument is suitable for making the most accurate measurement of the internal diameter of a test rube?
A. meter rule
B. a pair of callipers
C. a micrometre screw gauge
D. a tape rule

60. An object weight 10N in air and 7N in water what is the weight when immersed in a liquid of relative density 1.5?
A. 4.67N
B. 4.67N
C. 5.5N
D. 8.5N

61. The absolute zero temperature is defined as the temperature at which
A. thermal motion ceases
B. the temperature of the gas is 273°c
C. ice melts
D. the volume of a real gas is maximum

62. Which of the following is not a suitable method for reducing loss of heat from a piece of hot iron?
A. wrapping it in cotton
B. painting it black
C. placing in a vacuum
D. keeping it in a closed wooden box

63. A concave mirror of radius of curvature 20cm has a pin placed at 15cm from its pole. What will be the magnification of the image formed?
A. 4.00
B. 2.00
C. 133
D. 1.50

64. Birds perch safely on overhead electric power cables without being electrocuted because_____.
A. birds can withstand p.d of the electric cables.
B. any accumulated charge on the birds is quickly dissipated
C. the feet of the birds are well insulted

D. there is no p.d between the birds and the cables

65. Viscosity of a liquid does not depend on the_____.
A. nature of the liquid
B. area of the surfaces in contact
C. normal reaction between the liquid layers
D. temperature

66. An acid present in proteins is_____.
A. lactic acid
B. amino acid
C. palmitic acid
D. stearic acid

67. The following are uses of sulphur except_____.
A. manufacture of tetraoxosulphate (iv) acid
B. prevention of the growth of fungi
C. vulcanization of rubber
D. coating of steel to prevent rusting

68. A salt which loses mass when exposed to air is a_____.
A. hygroscopic
B. deliquescent
C. efflorescent
D. effervescent

69. Detergents are better than soaps for laundry because____.
A. detergents are synthetic while soaps are not
B. detergents are more soluble in water than soaps
C. scum is precipitated when soaps are used with hard water but not with detergents
D. soaps form soluble of water while detergents do not

70. Which of the following compounds is aromatic?
A. benzene
B. cyclobutane
C. hexane
D. ethane

71. Which of the following substances is used as an anaesthetic?
A. CHI
B. $CHCl_3$
C. CHBr
D. C_2H_5OH

18

72. Which of the following is a neutral oxide?
A. nitrogen (iv) oxide
B. carbon (iv) oxide
C. sulphur (vi) oxide
D. nitrogen (i) oxide

73. Which of the following statements is not correct?
A. carbon exhibits allotropy
B. sulphur exhibit allotropy
C. chlorine exhibits allotropy
D. argon is a noble gas

74. The following are heavy chemicals except_____.
A. tetraoxosulphatc (vi) acid
B. caustic soda
C. dyes
D. sodium trioxocarbonate (iv)

75. Which of the following is not true of the rusting of iron?
A. rusting is a reduction process
B. rusting of iron take place in the presence of oxygen and moisture
C. the rust formed is reddish brown
D. the major constituent of rust is hydrated iron (iii) oxide

76. The most suitable method to use when separating an insoluble solid from a liquid is_____.
A. evaporation
B. filtration
C. magnetization
D. distillation

77. When an element can exist in two or more physical state, the element is said to exhibit?
A. isotopy
B. isomerism
C. allotropy
D. hygroscope

78. Which of the following carbohydrates does not usually occur in the crystalline form?
A. fructose
B. glucose
C. cellulose
D. maltose

79. Copper can be best be purify by_____.
A. roasting the impure copper in a blast furnace
B. heating the oxide coke
C. electrolyzing a copper (ii) salt solution using the impure copper as the anode
D. washing the impure copper with sodium hydroxide solution

80. A sample of orange juice is suspected to have been contaminated with a yellow dye. Which of the following methods can be used to detect the dye?
A. decantation
B. chromatography
C. distillation
D. evaporation

81. If Okoye scored 75 in biology instead of 57, his average mark in four subjects would have been 60. What was his total mark?
A. 282
B. 240
C. 222
D. 210

82. Divide the L.C.M of 48, 64 and 80 by their H.C.F.
A. 20
B. 30
C. 48
D. 60

83. Find the smallest number by which 252 can be multiplied to obtain a perfect square
A. 2
B. 3
C. 5.
D. 7

84. Ekpo deposited ₦150.00 in the bank. At the ends of 5 years the simple interest on the principal was ₦55.00. At what rate per annum was the interest paid?
A. 11%
B. $7^1/_3$%
C. 5%
D. 3 ½ %

86. In 1984, Ike was 24 years old and his father was 45 years old, in what year was Ike exactly half his father's age?
A. 1982
B. 1981
C. 1979
D. 1978

87. A regular polygon of n sides has 16⁰ as the size of each interior angle. Find n.
A. 19
B. 16
E. 14
D. 14

88. An open rectangular box externally measures 4m x 3m x 4m. find the total cost of painting the box externally if it cost ₦2.00 to paint one square meter
A. ₦96.00
B. ₦112.00
C. ₦136.00
D. ₦160.00

89. Of the nine hundred (900) students admitted in a unity school in 2005, the following was the distribution by state of origin: Anambra (185), IMO (235), Kaduna (90) Kwara (110), Ondo (155), and Oyo (225). In pie chart drawn to represent this distribution, the angle subtended at the centre by Anambra state is_____.
A. 50°
B. 65°
C. 74°
D. 90°

90. Find the median of the numbers 89, 141, 130, 161, 131 131, 100, 108 and 119.
A. 131
B. 125
C. 123
D. 120

91. Find the least length of a rod which can be cut into exactly equal strips, each of either 40cm or 48cm in length.
A. 120 cm
B. 240 cm
C. 360 cm
D. 480 cm

92. A rectangular lawn has an area of 1815 square yards. Its length is 50 metres, find its width in metre, given that 1 metre equals 1.1 yards
A. 39.93
B. 35.00
C. 33.00
D. 30.00

93. If the length of a square is increased by 20% while is width is decreased by 20% to form a rectangle, what is the ratio of the area of the rectangle to the area of the square?
A. 6:5
B. 25:24
C. 5:6
D. 24:25

94. Peter's weekly wages arc ₦20.00 for the first 20 weeks and ₦36.00 for the next 24 weeks. Find his average weekly wage for the remaining 8 weeks of the year, if his average weekly wage for the whole year is ₦30.00.
A. ₦37.00
B. ₦35.00
C. ₦30.00
D. ₦25.00

95. By selling 20 oranges for ₦1.35 a trader makes a Profit of 8%. What is his percentage gain or loss if he sells the same 20 oranges for ₦1.10
A. 8%
B. 10%
C. 12%
D. 15%

96. Four boys and ten girls can cut a field in five hours. If the boys work at $^5/_4$ the rate at which the girls work; how many boys are needed to cut the field in 3 hours?
A. 100
B. 60
C. 25
D. 20

97. A farmer planted 5000 grains of maize and harvested 5,000 cobs, each bearing 500 grains. What is the ratio of the number of grains sowed to the number harvested?
A. 1:500
B. 1:5000
C. 1:23,000
D. 1:250,000.

98. If the heights of two circular cylinders arc in the ration of 2:3 and their base radii are in the ratio of 9:8, what is the ratio of their volumes?
A. 27:32
B. 27:23
C. 23:32
D. 21:27

99. The mean of ten positive numbers is 16. When another number is added, the mean

becomes 18. Find the eleventh number.
A. 3
B. 16
C. 18
D. 38

100. Convert 3.1415926 to five decimal places.
A. 3.14160
B. 3.14159
C. 0.31415
D. 3.14200

ANSWERS 2009/2010 UNIZIK POST UTME PAST QUESTIONS

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

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

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

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

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

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

45. C 46. D 47. A 48. D 49. B 50. C 51. B

52. D 53. D 54. B 55. D 56. B 57. B 58. B

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

66. B 67. D 68. C 69. C 70. A 71. B 73. C

74. C 75. A 76. B 77. C 78. C 79. C 80. B

81. C 82. D 83. D 84. B 85. B 86. B 87. A

88. C 89. C 90. B 91. B 92. D 93. D 94. A

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

2010/2011 UNIZIK POST UTME QUESTIONS

Choose the option that mostly suitably fills the space in each of the following sentences.

1. If I went to watch the football match, I_____ early.
A. Shall return
B. am returning
C. would return
D. had returned

2. He went up quickly and returned _____.
A. Fastest
B. very fast
C. fastly
D. as fast

3. His suggestion is completely_____ the point and cannot be accepted.
A. to
B. about
C. besides
D. beside

4. In order to carry out the post-mortem examination, the dead body was_____.
A. extracted
B. exhumed
C. fumigated
D. dispelled

5. The green snake which lives in the green grass is using a perfect_____.
A. shelter
B. under cover
C. camouflage
D. subterfuge

6. Tennyson and Browning lived about the same time and are therefore_____
poets.
A. contemporary
B. contrary
C. similar
D. contemporaneous

7. If you travel by air you will be given allowance to cover_____.
A. a luggage
B. luggage
C. luggages
D. a baggage

8. Last week, the_____ at the theatre was the largest in had ever seen.
A. assembly
B. crowed
C. fans
D. audience

9. The train rattled along_____ full speed.
A. in
B. at
C. with
D. on

10. His horrible high-pitch laugh_____ on my nerves.
A. jabs
B. jams
C. jars
D. jeers

11. As he Was still owing me one thousand Naira, I careful not to_____ him any more money.
A. loan
B. lend
C. borrow
D. credit

12. Before the operation, the dentist found that the patient's teeth_____.
A. have long decayed
B. have long decayed
C. had long decayed
D. had been decayed

13. The employer, not the sales man and his representative,_____ responsible for the loss of revenue.
A. are
B. have been
C. is
D. are being

14. When the beggar was tired, he_____ dawn by the road side.
A. lied
B. laid
C. lay
D. layed

15. He did not like_____ leaving the class early.
A. us
B. we

C. our
D. ourselves

16. In presenting the case, the vice chancellor warned that the senate should not cite it as a_____.
A. precedence
B. presedence
C. president
D. precedent

17. We got to the viewing centre after the football match_____.
A. has started
B. had started
C. was starting
D. have started

18. In Nigeria, the_____ of river blindness is about 25 per cent.
A. incident
B. incidence
C. accident
D. accidence

19. We should take extra precaution_____ the kidnappers come back.
A. maybe
B. should in case
C. in case
D. perhaps

20. What a relief that the strike_____ when it did.
A. would end
B. was ending
C. ended
D. has ended

21. He played the piano_____ an hour or two.
A. around
B. in about
C. during
D. for

22. He sent the children out to play_____ he might be alone.
A. because
B. since
C. so that
D. while

23. It is time we_____.
A. should be going
B. ought to do

C. go
D. went

24. Do you know if the new teacher_____ yet.
A. is arrived
B. will be arriving
C. has arrived
D. had arrived

25. Oji is not far from here, it is only an_____.
A. hour of driving
B. hour by driving
C. hour drive
D. hour's drive

26. The new leader has good intentions but he is unable to_____.
A. carry them with him
B. carry them on
C. carry them out
D. carry them all

27. We travelled all night and arrived_____ the Jibowu motor park at six O'clock in the morning.
A. at
B. by
C. on
D. in

28. During the swearing in ceremony for a second term, the Governor____ the activities of his tenure.
A. reiterated
B. reviewed
C. restated
D. recited

29. The giant hydro-demo project is among the of colonial rule in northern Nigeria.
A. inheritance
B. evidence
C. legacies
D. remnants

30. The vice-chancellor will be travelling to china. In his absence, the Deputy Vice-chancellor (administration) will_____ the university.
A. take over
B. overlook
C. care for
D. look after

31. The prices of cars have become_____.
A. painful
B. unbearable
C. harsh
D. exorbitant

32. I had_____ trust in the boy before he woefully disappointed.
A. essential
B. flagrant
C. absolute
D. effective

33. We need to_____ our resources in these hard times.
A. squander
B. economize
C. minimize
D. withhold

34. Paul's soothing remarks were made to_____ John's anger.
A. rekindle
B. accommodation
C. mollify
D. petrify

35. The poor boy was_____ when he stepped on live wire.
A. blazed
B. electrified
C. burnt
D. electrocuted

36. The politician ran to another country to seek
A. refuge
B. safeguard
C. safety
D. privacy

37. The governor ordered that the work done by any contractor should be properly_____ so as to know correct amount to pay.
A. correct
B. accounted
C. investigated
D. probed

38. The university awarded_____ doctorate degrees to four distinguished members of the community.
A. honourable
B. ceremonial

C. honorary
D. honouring

39. The students threatened to embark on a_____ of lecture if their demand were not met.
A. suspension
B. boycott
C. rejection
D. boycott

40. The late politician had an_____ ambition to rule the country.
A. insipid
B. infantile
C. incarnate
D. obtuse

41. The slope of a straight-line displacement time graph indicates the_____.
A. distance travel
B. uniform velocity
C. uniform speed
D. uniform acceleration

42. A man will exert the greatest pressure on a bench when he_____.
A. lies flat on his back
B. lies flat on his belly
C. stands on both feet
D. stands on one foot only

43. A hall of mass 0.54 moving at 10m/s collides with another ball of equal mass at rest. If the, two ball move off together after the impact, calculate their common velocity.
A. $0.2ms^{-1}$
B. $0.5ms^{-1}$
C. $5.0ms^{-1}$
D. $2.0ms^{-1}$

44. A ball is thrown vertically upwards from the ground with an initial velocity of $50ms^{-1}$, what is the total time spent by the ball in the air? ($g=10ms^{-2}$).
A. 2.5s
B. 5.0s
C. 10.0s
D. 15s

45. Which of the following cannot be used to measure the temperature of a substance?
A. variation of pressure with temperature
B. expansivity of a liquid
C. change in colour with temperature
D. thermoelectric effect

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46. The clinical thermometer is characterized by having a_____.
A. wide range of temperature
B. wide bore
C. narrow bore
D. constriction

47. Which of the following is a reason why a concrete floor feels colder in the rainy season?
A. that is a better conductor of heat than the feet
B. mat loses to the bare feet at a faster than concrete floor
C. mat is a better conductor of heat than the floor
D. concrete floor is a better conductor of heat than the mat

48. In which of the following is the expansion of solid a disadvantage?
A. The fitting of wheels in rims
B. fire arms
C. the balance wheel of a watch
D. the thermostat

49. The temperature at which the water vapor present in the air is just sufficient to saturate it is called the_____.
A. ice point
B. boiling point
C. saturation point
D. dew point

50. Which of the following wind instruments may be used to measure relative humidity?
A. hydrometer
B. barometer
C. hygrometer
D. manometer

51. An object is placed 36cm from a converging lens of focal length 24cm if a real image which is 4cm height is formed. Calculate the height of the object
A. 2.0cm
B. 4cm
C. 6.0cm
D. 8.0cm

52. The ability of the eye to focus object at different distance is called_____.
A. power
B. accommodation
C. normal vision

53. The change of the direction of wave-front because of a change in the velocity of the wave in another medium is_____.
A. refraction
B. diffraction
C. reflection
D. dispersion

54. A sounding tuning fork is brought near the end of a pipe containing an air column and the loudness of the sound increases. The effect is due to_____.
A. an echo
B. resonance
C. reverberation
D. interference

55. The unit of inductance is the_____.
A. farad
B. hertz
C. henry
D. coulomb

56. Which of the following is not correct about isotope an element? They have_____.
A. the same neutron number
B. the same proton number
C. the same number of electrons
D. different physical properties

57. The motion of the prongs of sounding tuning fork is_____.
A. random
B. rotational
C. vibratory
D. vibratory and rotational

58. A thermometer has its stem marked in millimetre instead of degree Celsius. The lower fixed point is 30mm and the upper fixed point is 180mm. Calculate the temperature in degree Celsius when the thermometer reads 45mm.
A. 67.5°c
B. 30.0°c
E. 15.0°c
D. 10.0°c

59. Which of the following surfaces will radiate heat energy best?
A. red
B. white
C. black
D. blue

60. Which of the following statement is not correct?
A. evaporation takes place only at the surface of a liquid
B. boiling takes place throughout the volume of a liquid
C. evaporation takes place at all temperatures
D. the boiling point of a liquid is not affected by impurities

61. An acid present in proteins is_____.
A. lactic acid
B. amino acid
C. propanic acid
D. palmatic acid

62. The following are uses of sulphur except____.
A. manufacture of tetraoxosulphate (vi) acid
B. preventing of the growth of fungi
C. coating of steel to prevent rusting
D. manufacture of dyes

63. Which of the following compounds is aromatic?
A. benzene
B. cyclobutane
C. hexane
D. ethane

64. Which of the following statements is not correct?
A. carbon exhibit allotropy
B. sulphur exhibits allotropy
C. chlorine exhibit allotropy
D. argon is a noble gas

65. Which of the following correctly explains why iodine crystals change directed into the gaseous state when heated?
A. iodine crystals sublime
B. iodine molecules are covalent
C. iodine molecules are held together by weak forces
D. iodine atoms are held together by strong forces

66. A salt which loses mass when exposed to air is____.
A. Hygroscopic
B. efflorescent
C. effervescent
D. deliquescent

67. Which of the following is a neutral Oxide?
A. nitrogen (iv) oxide
B. carbon (iv) oxide
C. sulphur (iv) oxide
D. nitrogen oxide

68. Detergent arc better than soaps for laundry because____.
A. detergents arc synthetic while soaps are not
B. detergent are more soluble in water than soaps
C. scums are precipitated when soaps are used with hard water but not with detergents
D. soaps form soluble salt with ions causing hardness of water while detergent do not

69. During the electrolysis of dilute tetraoxosulphate (iv) acid solution, 0.5 mole of electrons were passed. What volume of gas was produced at the anode? (Gaseous molar volume=22.4dm^3 at S.T.P)
A. 0.224dm^3
B. 0.280dm^3
C. 2.24dm^3
D. 2.80dm^3

70. The Solvay process is used in the manufacture of ____.
A. sodium (iv) oxide
B. sodium trioxocarbonate (iv)
C. sodium oxocarbonate (iv)
D. sodium trioxochloride (iv)

71. Aluminium is above iron in the electrochemical series, yet corrodes easily on exposure to air above iron in the electrochemical while aluminium does not. This is because aluminium____.
A. has a lower density than iron
B. is a better conductor of heat
C. form a thin layer of inert oxide in most air
D. does not corrode spontaneously

72. A catalyst which increases the rate of chemical reaction does so by____.
A. increasing the reaction pathway
B. increases the surface area of the reactants
C. decreasing the activation energy of the reaction
D. decreasing the temperature at which the reaction occurs

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73. A sample of orange is suspected to have been contaminated with a yellow dye. Which of the following methods can be used to detect the dye?
A. decantation
B. distillation
C. chromatography
D. filtration

74. Which of the following compounds have hydrogen bonds between its molecules?
A. HBr
B. HF
C. HCl
D. HI

75. Which of the following properties of atoms generally increases down the periodic table?
A. electron affinity
B. electronegativity
C. ionic radius
D. ionization energy

76. When sodium atom forms the ion Na^+,_____.
A. it gains one electron
B. it gains one proton
C. it achieves a noble gas configuration
D. its atomic number increases

77. A transition metal would be expected to_____.
A. form oxide with formulae
B. have strong oxidizing affinity
C. have low density
D. have an atomic structure with an incomplete outermost shell

78. What product is formed at the cathode during the electrolysis of concentrated sodium chloride solution using carbon electrode?
A. chloride
B. hydrogen
C. oxygen
D. sodium

79. Which of the following substances solvent for perfume.
A. benzene
B. ethanol
C. water
D. turpentine

80. Which of these metals will not liberate hydrogen from dilute HCl?
A. copper
B. iron
C. magnesium
D. zinc

81. A sales girl gave a balance of ₦1.15 to a customer instead of ₦1.25. Calculate her percentage error.
A. 0%
B. 0.10%
C. 8.0%
D. 0.8%

82. What value K makes the given expression a Perfect square, $m^2-8m + k$
A. 2
B. 4
C. 8
D. 16

83. Factorize $5y^2+2ay-3a^2$
A. $(5y-a)(y+3a)$
B. $(5y+a)(y-3a)$
C. $(5y2+a)(2y-3a)$
D. $(5y-3a)(y+a)$

84. Find the quadratic equation whose roots are x=-2 and x = 7
A. $x^2 + 2x-7= 0$
B. $x^2 -5x-14 = 0$
C. $x^2 - 2x +7=0$
D. $x^2+14=0$

85. A student measure the length of a room and obtained the measure of 3.99m. If the percentage error of his measurement was 5% what is the length of the room?
A. 3.78m
B. 4.18m
C. 4.20m
D. 4.78m

86. A rope of length 18m is used to form a sector of radius of 3.5m on a school playing field. What is the size of the angle of the sector, correct to nearest degree?
A. 40°
B. 180°
C. 33°
D. 270°

87. If $3loga + 5loga-6loga = log64$, what is a?
A. 4

27

B. 6
C. 8
D. 16

88. The angle of elevation of X from y is 30°. If XY = 40m, how high is X above the level of Y?
A. 10m
B. 20m
C. 40m
D. 50m

89. instead of recording the number 1.23cm for radius of a tube, a student recorded 1.32cm. Find the percentage error, correct to one decimal place.
A. 6.8%
B. 7.3%
C. 14.4%
D. 15.0%

90. An arc of a circle of radius 7cm is 14cm long, What angle does the arc subtend at the centre of the circle?
A. 25.7°
B. 44°
C. 114.59°
D. 1698°

91. If 5 times a certain integer is subtracted from twice the square of the integer, the result is 63. Find the integer.
A. 21
B. 9
C. 7
D. 4

92. While doing his physical practical, Okoli recorded his reading as 1.12cm instead of 1.121cm, calculate the percentage error.
A. 1.17%
B. 6.38%
C. 7.44%
D. 98%

93. In a class of 80 students, every student had to study Economics or Geography, or both Economics and Geography. If 65 students studied Economics and 55 Geography studied Geography, how many studied both subjects?
A. 15
B. 30
C. 35
D. 45

94. Solve the Equation: $7y^2 = 3y$
A. y = 3 or 7
B. y= 0 or 7
C. y = 0 or y= $^3/_7$
D. y = 0

95. Calculate the surface area of a sphere of radius 7 cm
A. 85cm^2
B. 154 cm^2
C. 616 cm^2
D. 1434 cm^2

96. Find the total surface area of a cylindrical container closed at both ends, and a radius of 7cm and height of 5cm.
A. 35cm^2
B. 152cm^2
C. 220cm^2
D. 528cm^2

97. Find the volume of the container whose radius is 7 and height is 5cm
A. 35cm^3
B. 154cm^3
C. 528sm^3
D. 770cm^3

98. From the top of a building 10m high, the angle of depression of a stone lying on the horizontal ground is 69°. What is the distance of the stone from the foot of the building?
A. 3.6m
B. 3.8m
C. 6.0m
D. 9.3m

99. The bearing of X from a point Y is 074°. What is the bearing of Y?
A. 106°
B. 148°
C. 254°
D. 286°

100. The population of a village is 5846. Express this number to three significant figures
A. 5850
B. 5846
C. 5840
D. 58

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ANSWERS TO 2010/2011 UNIZIK QUESTIONS

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

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

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

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

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

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

45. C 46. D 47. D 48. C 49. D 50. C 51. A

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

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

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

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

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

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

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

2012/2013 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. Njoku_____ as a mechanic when he was young, but now he is a driver.
A. had been working
B. used to work
C. would work
D. would have worked
E. had worked

2. If Ikenna performs poorly in her forthcoming Examination, then either her mother or I_____ to blame.
A. must
B. has
C. will be
D. are
E. is

3. No sooner had the examination ended _____the students started vacating the halls.
A. when
B. that
C. than
D. before
E. and

4. If_____ one day we would talk about it for weeks.
A. a lion would be coming into this room
B. a lion was coming into this room
C. a lion came into this room
D. a lion is coming into this room
E. a Lion is going to come into this room

5. When we were coming back from the picnic last Friday, there_____ on Niger Bridge.
A. were many traffics
B. was much traffic
C. were plenty
D. were lots of traffics
E. was a lots of traffic

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

6. My friend will hate his uncle forever because he **left him in the lunch** in his hour of need.
A. abandoned him
B. punished him
C. disrespected him
D. disinherited him
E. despised him

7. **For all he cared, the game was as good as lost**.
A. He did not care if the game was lost
B. He could not care less if the game was lost
C. He was almost certain that the game would be lost
D. He was afraid the game would be lost
E. The game was very good and he cared very much about losing it

8. Some people are naturally **belligerent**.
A. naughty
B. benevolent
C. barbaric
D. warlike
E. wicked

9. This is a **mundane** thing.
A. natural
B. secular
C. familiar
D. clear
E. crazy

10. The word caligynephobia means_____.
A. Fear of smile
B. fear of nudity
C. fear of pregnancy
D. fear of beautiful women
E. fear of being touched

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

11. The man who had been seriously ill was **convalescing** at a sea-side resort.
A. regaining-health
B. deteriorating in health
C. recuperating
D. relaxing
E. hallucinating

12. Ben will soon get to the **zenith** of his career.

A. peak
B. low
C. nadir
D. bottom
E. foot

13. The antonym of the word verbose is_____.
A. Lose
B. concise
C. Intractable
D. overdue
E. heterodox

Choose the word/expression which best completes each sentence

14. You_____to know better than an illiterate farmer.
A. are suppose
B. are supposed
C. suppose
D. may supposed
E. will suppose

15. The passenger waited patiently whilst they transferred his_____ from the taxi to the bus.
A. Properties
B. baggage's
C. Baggage
D. property
E. bagagges

Choose the best of the options from the Questions below

16. If hydrogen sulphide gas is passed into a solution of a pure iron chloride, a yellow deposit appears. If the deposit is filtered, a pale green solution is left behind. The pale green solution is_____.
A. dilute sulphuric acid
B. dilute hydrochloric acid
C. un reacted hydrogen sulphide in water
D. iron (III) chloride
E. iron (II) chloride

17. A solid x when heated gives off a brown gas. If x is soluble in excess sodium hydroxide solution but insoluble in excess ammonium hydroxide solution, x is?
A. Basic lead carbonate
B. lead(II) trioxonitrate
C. Sodium carbonate
D. zinc nitrate
E. Sodium nitrate

18. When excess ethanol is heated to 145°C in the presence of concentrated sulphuric acid, the product is_____.
A. Diethyl ether
B. ethyne
C. diethyl sulphate
D. acetone
E. ethanoic acid

19. Given the mean atomic mass of chlorine prepared in the laboratory to be 35.5 and assuming that chlorine contains two isotopes of mass numbers 35 and 37. what is the percentage composition of the isotope of mass number 35?
A. 20
B. 25
C. 50
D. 75
E. 90

20. The oxidation state of manganese in $KMnO_4$ is_____.
A +1
B. +3
C. +5
D. +7
E. +2

21. 28.8 cm^3 of nitrogen at 15° C is cooled 10 0°C at constant pressure. the new volume of nitrogen is_____.
A.17.4cm^3
B.14.7cm^3
C. 27.3cm^3
D.31.7cm^3
E. 34.7cm^3

22. The electronic configuration of elements x and y arc X = 2, 8, 6 and Y = 2, 8, 7. The bond in the compound formed by x and y is expected to be_____.
A. ionic
B. covalent
C. dative covalent
D. metallic
E. none of the above

23. If 1 mole of aluminium contains 6 x 10^{23} atoms of aluminium, how many atoms are contained in 0.90 of aluminium?
A. 1.0 x 10^{21}
B. 6.6 x 10^{21}
C. 2.0 x 10^{22}

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D. 6.0×10^{22}
E. 5.4×10^{23}

24. 1.0g of the oxide of metal x (atomic mass =64) gave 0.08g of the metal when reduced with hydrogen. The formula of the oxide is_____.
A. X_2O
B. XO
C. XO_2
D. X_2O_3
E. X_3O_4

25. Cotton is almost pure____.
A. starch
B. protein
C. animal fibre
D. cellulose
E. Mineral fibre

26. The cracking process is very important in the petroleum industry because it____.
A. gives purer products
B. yields more lubricants
C. yields more engine fuels
D. yields more asphalt
E. yields more candle wax

27. Stainless steel is an alloy of_____.
A. Carbon, iron and lead
B. Carbon, iron and chromium
C. Carbon. iron and copper
D. Carbon, iron and silver Carbon and iron only

28. The ratio of the number of molecules in 2g of hydrogen, to that in 16g of oxygen is_____.
A. 2:1
B. 1:1
C. 1:2
D. 1:4
E. 1:8

29. If the molar mass of x is 36g, the number of moles of x dissolved at 343k is
A. 0.2 mole
B. 0.7 mole
C. 1.5 moles
D. 2.0 moles
E. 3.0 moles

30. What process would coal undergo to give gas, coal tar, ammoniacal liquor and coke?
A. Steam distillation

B. Destructive distillation
C. Liquefaction
D. Hydrolysis
E. Sublimation

31. If $x^2 + 4 = 0$, then x = ?
A. 4
B. -4
C. 2
D. -2
E. none of the above

32. A pyramid is constructed on a cuboid. The figure has____.
A. Twelve faces
B. Thirteen vertices
C. Fourteen edges
D. Fifteen edges
E. Sixteen edge

33. $(3.2)^2 - (1.8)^2$ equals____.
A. 7.0
B. 2.56
C. 3.48
D. 2.0
E. 0.07

34. The annual profits of a transport business were divided between the two partners A and B in the ratio 3:5. If B received $3000 more than A, the total profit was____.
A. $5000
B. $1800
C. $12000
D. $24000
E. $8000

35. Which of the following is not a factor of $12^2 - 5^2$?
A. 7
B. 13
C. 17
D. 49
E. 169

36. The media f the set of numbers 4, 9, 4, 13, 7, 14, 10, 7 is
A. 13
B. 7
C. $^{19}/_2$
D. 10
E. 3914

37. Simplify $10^2 + \log_{10} 5$
A. 500

32

B. $2\log_{10} 5$
C. 10
D. 7
E. none of the above

38. A micrometre is defined as one millionth of a millimetre. A length of 12,000 micrometres may be presented as_____.
A. 0.00012
B. 0.0000012
C. 0.000012m
D. 0.00000012m
E. 0.000000012m

39. The positive root of t in the following equation, $4t^2 + 7t - 1 = 0$, correct to 4 places of decimal, is_____.
A. 1.0622
B. 10.6225
C. 0. 328
D. 0.3201
E. 2.0132

40. In regular polygon of n sides, each interior angle is 144°. Find n.
A. 12
B. 11
C. 10
D. 8
E. 6

41. A temperature of 20°C is the same as_____
A. 36°F
B. 68°F
C. 11.1°F
D. 43.1°F
E. 25°F

42. A string of length, L = 75cm, is fastened at both ends, the fundamental tone is_____.
A. 75 cm
B. 150 cm
C. 37.5 cm
D. 112.5 cm
E. 50 cm

43. A man standing between two parallel mirrors in a barber's shop will see the following number of his own image.
A. Eight
B. Two
C. Four
D. One
E. Infinite

44. Which of the following electromagnetic waves has the shortest wavelength?
A. Radio waves
B. x-rays
C. Infra -red
D. Blue light
E. Ultraviolet

45. In an electrolysis experiment, a cathode of mass 5g is found to weight 5.01g after a current of 5A flows for 5 seconds. What is the electrochemical equivalent of the deposited substance?
A. 0.00004g/C
B. 0.02500g/C
C. 0.0001g/C
D. 0.05000g/C

46. The activity of a radioactive substance depends on_____.
A. temperature and purity
B. temperature and age
D. age, purity and temperature
E. none of above

47. The resistance of an open series circuit is___.
A. Zero
B. half the normal resistance of the circuit
C. double the normal resistance of the circuit
D. one
E. Infinite

48. The resistance of a 240 V, 60-watt electric filament bulb is
A. 0.25 ohms
B. 480 ohms
C. 60 ohms
D. 240ohms
E. 960 ohms.

49. A transformer has 300 turns of wire in the primary coil and 30 turns in the secondary coil. If the input voltage is 100 volts, the output voltage is.
A. 5 volts
B. 10 volts
C. 15 volts
D. 20 volts
E. 25 volts

50. A 10g mass placed on the pen of a spring balance causes an extension of 5cm. If a 15g mass is placed on the pan of the same spring balance the extension is

A. 3.3cm
B. 6.5cm
C. 7.5cm
D. 10.8cm
E. 15.0cm

ANSWERS TO 2012/2013 UNIZIK QUESTIONS

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

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

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

24. B 25. D 26. A 27. B 28. A 29. – 30. A

31. E 32. E 33. A 34. C 35. D 36. C 37. E

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

45. A 46. B 47. E 48. E 49. B 50. C

2014/2015 UNIZIK POST UTME QUESTIONS

Time Allowed: 50 Minutes

Choose the option that best conveys the meaning of the underlined words

1. What is the most **astounding** event of your life?
A. amazing
B. special
C. serious
D. outstanding
E. embarrassing

2. Can you **put up with** that girl attitude to issues.
A. tolerate
B. exterminate
C. disallow
D. control
E. deal with.

Choose the option that most suitably fills the space

3. For three hours every day she_____ food in that restaurant.
A. is busied to serve
B. is busy serving
C. keeps busy to serve
D. kept busy to serve
E. serve

4. This work of art has been handed_____ from my fore fathers.
A. in
B. over
C. up
D. down
E. across

5. The couple first met_____ the Nnamdi Azikiwe University convocation.
A. in
B. at
C. in course of
D. on
E. inside

6. Ngozi's gift has been delivered. What about _____.
A. Uche
B. Uche's own
C. Uches
D. Uches'
E. Uche's.

7. The days are gone when ladies_____ dress elegantly.
A. would
B. will
C. should
D. could
E. used to

8. Everyone would wish_____ missed the show.
A. to not have
B. not to have
C. having not to
D. to have not
E. to having not

9. Mr Ahmadu has many cattle and all_____.
A. is tick-free
B. are tick-free
C. is ticks-free
D. are ticks-free
E. were ticks-free

10. The student rounded_____ their party late.
A. up
B. of
C. off
D. out
E. in

11. Her evidence led_____ the nailing of the suspect.
A. at
B. into
C. in
D. to
E. on

12. They went for the competition in very_____.
A. high spirit
B. high spirits
C. good spirit
D. good spirit
E. bogus spirit

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

13. His heart has **deteriorated** in the past few weeks.
A. collapsed
B. worsened
C. improved
D. relaxed
E. revived

14. See! You ate wasting time on the **peripheral** aspect of this issue.
A. unimportant
B. superficial
C. minor
D. main
E. insignificant

15. His provision business is only in **gross**.
A. wholesale
B. imported
C. retailed
D. exported
E. local

16. I know he will **investigate** the matter.
A. ask about
B. forget about
C. examine
D. inquire about
E. prosecute

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

17. A. granite
B. die
C. rice
D. fight

18. A. does
B. flood
C. world
D. son

19. A. spot
B. law
C. north
D. naught.

Identify the word that has a different stress pattern from the others

20. A. Criticism
B. impossible
C. interpreter
D. remarkable

Choose the correct or best answer to the following questions

21. One of these is a physical change.
A. bubbling of chlorine into water
B. bubbling of chlorine into a jar containing hydrogen
C. the dissolution of sodium chloride in water
D. the passing of steam into heated iron
E. none of the above

22. The bond in ammonium chloride molecule is_____.
A. ionic only
B. covalent only
C. ionic and dative covalent
D. dative covalent only
E. none of the above

23. The kinetic theory of gases does not explain one of these laws
A. Boyle's law
B. Charles' law
C. Gay-Lussac's law
D. Graham's law
E. a and c

24. How many moles of H^+ are there in 1 dm^3 of 0.5M solution of H_2SO_4?
A. 2.0
B. 1,0
C. 0.5
D. 0.25
E. 0.195.

25. Duralumin is made up of the following.
A. zinc and gold
B. nickel and silver
C. manganese and magnesium
D. aluminium and copper
E. a and d

26. A balance chemical equation obeys the law of_____.
A. conservation of mass
B. definite proportion
C. multiple proportion
D. conservation of energy
E. single proportion

27. If gas occupies a volume of $1.50dm^3$ at 25°C and 1atm. At 100°C what volume will it occupy?
A. $1.88dm^3$
B. $6.00dm^3$

C. 18.80dm^3
D. 60.00dm^3
E. 600dm^3

28. To double both volume and pressure to what temperature must a gas at 273K be heated?
A. 298K
B. 546K
C. 819K
D. 1092K
E. 1000K

29. The relative molecular mass of a gas is 2Y. What is Y?
A. the mass of the gas
B. the vapour density
C. the volume of the gas
D. the temperature
E. half of the mass of the gas

30. Which of the following is common to the alloys of bronze and bras?
A. tin
B. zinc
C. copper
D. lead
E. aluminium

31. Which of these is a derived unit?
A. Kilogramme
B. Metre
C. Kelvin
D. Newton
E. Gramm

32. Which of these is the correct precision if the length of a piece of wire is measured with a metre rule?
A. 35mm
B. 35.0mm
C. 35.00mm
D. 35.01
E. 35.000

33. A ball is thrown vertically into the air with an initial velocity u. What is the greatest height reached?
A. $\frac{u}{2g}$

B. $\frac{3u^2}{2g}$

C. $\frac{u^2}{2g}$

D. $\frac{2u^3}{g}$

E. $\frac{3u}{2g}$

34. Evaporation and boiling has one of these in common.
A. they take place at any temperature
B. they are surface phenomena
C. they involve change of state
D. the take place at a definite pressure
E. e and d

35. Dry Leclanche cell stores_____.
A. electric power
B. kinetic current
C. electric current
D. chemical energy
E. none of the above

36. Which of these instruments has a pure tone?
A. guitar
B. vibrating string
C. tuning fork
D. siren
E. all of the above

37. Which of the following media allow transmission of sound waves through them?
A. air
B. liquid
C. solid
D. a and b
E. all of the above

38. A column of air 10.0cm long is trapped in a tube at 27°C. What is the length of the column at 100°C?
A. 12.4cm
B. 13.7cm
C. 18.5cm
D. 37.0cm
E. 32cm

39. Shadows and eclipse result from
A. refraction of Light
B. rectilinear propagation of light
C. refraction of light
D. reflection of light
E. a and b

40. When an object is placed in front of two mirrors inclined at 90°, how images will be seen?
A. 2
B. 4
C. 3
D. 5
E. infinite

41. The sum of $3\frac{7}{8}$ and $1\frac{1}{3}$ is more than the difference between $\frac{3}{8}$ and $1\frac{2}{3}$ by
A. $3\frac{11}{12}$

B. $5\frac{1}{4}$

C. $1\frac{1}{2}$
D. 0
E. $8\frac{1}{8}$

42. $(1.28 \times 10^4) \div (6.4 \times 10^2)$ equals___.
A. 2×10^{-5}
B. 2×10^{-1}
C. 2×10^0
D. 2×10^1
E. 2×10^5

43. A father is now three times as his old as son. Twelve years ago, he was six times as old as his son. How old are the son and the father?
A. 100 and 150
B. 45 and 65
C. 35 and 75
D. 20 and 60

44. Evaluate and correct to four decimal places: 827.51×0.015
A. 8.8415
B. 12.4127
C. 125.1265
D. 12.4120
E. 114.1265

45. Solve the equation $(\log_3 X)^2 - 6\log_3 X + 9 = 0$
A. 27
B. 9
C. $\frac{1}{27}$
D. 18
E. 81

46. ₦560.7 is shared in the ratio 7:2:1. What is the value of the smallest share?

A. ₦392.49
B. ₦56.70
C. ₦113.40
D. ₦112.14

47. Simplify: $3 - 2 \div \frac{4}{5} + \frac{1}{2}$
A. $1\frac{3}{4}$
B. -1
C. $1\frac{1}{9}$
D. 1
E. $1\frac{1}{3}$

48. A stick of 250cm is measured as 255. The percentage error is___.
A. 55
B. 10
C. 5
D. 4
E. 2

49. Without the use of tables, find the numerical value of $\log_7 49 + \log_7\left(\frac{1}{7}\right)$
A. 1
B. 2
C. 3
D. 7
E. 0

50. Okey sold his car to Obi at a profit of 10%. Obi sold it for ₦209 at a loss of 5%. How much did the bicycle cost?
A. ₦200
B. ₦180
C. ₦205
D. ₦206
E. ₦1

ANSWERS TO 2014/2015 UNIZIK PAST QUESTIONS

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

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

17. A 18. C 19. A 20. A 21. C 22. C 23. C

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

31. D 32. B 33. C 34. C 35. D 36. C 37. E

38. – 39. B 40. C 41. A 42. D 43. E 44. B

45. A 46. E 47. D 48. E 49. A 50. A

2015/2016 UNIZIK POST UTME QUESTIONS

TIME ALLOWED: 10 Minutes

Chose the word or group of words the best completes each of the following sentences

1. Mike's fever was so acute that he_____an injection.
A. had to have
B. had to had
C. must have
D. ought to have

2. Cosmas is a very good friend on_____ I can rely.
A. who
B. whose
C. which
D. whom

3. 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

4. I ought_____ the letter by now.
A. to be sent
B. to have being sent
C. to have sent
D. to have to sent

Choose the word(s) that is most nearly opposite in meaning to the underlined word(s) and correctly fill the gap in the sentence

5. Joseph **purchased** various article at the big scale near the supermarket and, surprisingly enough, he_____ them all before he reached home that day.
A. destroyed
B. bought
C. lent
D. sold

6. In this argument, Martin was my **supporter** even though he is often my_____ in other matters.
A. Opponent
B. ally

C. opposite
D. proposer

7. People who are normally_____ often turn to be dauntless **heroes** in the face of real danger.
A. unsteady
B. colourless
C. cowardly
D. shameless

8. It is quite **customary** to introduce the guest but to insult him.
A. illegal
B. impolite
C. unusual
D. useless

9. A cinema hall contains number of people. If 22.5% are children, 47.5 % are men and 84 are women, find the number of men in the hall.
A. 63
B. 84
C. 113
D. 133

10. x varies directly as the product of U and V and inversely as their sum. If x=3 when u=3 and what is the value of x if u = 3 and v=3.
A. 3
B. 4
C. 6
D. 9

11. By how much is the mean of 30, 56, 31, 55, 43 and 44 less than the median?
A. 0.75
B. 0.50
C. 0.33
D. 0.17

12. Four interior angles of a pentagon are 900 - x°, 90'n+ x°, 110° - 2x" and 110° + 2x°. Find the fifth interior angle
E.
A. 110°
B.120°
C. 1300
D.140°

13. Find $\frac{dy}{dx}$ of the function y = 3x³— 2x + 36 with dx respect to x

A. $3x^2 - 2$
B. $9x^2 - 2x$
C. $9x^2 - 2$
D. $6x^3 - 2$

14. A hydrometer is an instrument used for measuring the____.
A. relative density of a liquid
B. relative humidity of the atmosphere
C. depth of water in a vessel
D. alkalinity of a liquid

15. The slope of a straight-line displacement-time graph indicates the____.
A. distance travelled
B. uniform velocity
C. uniform acceleration
D. uniform speed

16. A machine whose efficiency is 60% has a velocity ratio of 5. If a force of 500N is applied to lift a load of P(N), what is the magnitude of P?
A. 4166N
B. 500N
C. 1500N
D. 750N

17. A ball is thrown vertically upwards from the ground with an initial velocity of $50ms^{-1}$. What is the total time spent by the ball in the air' ($g=10ms^{-2}$).
A. 2.5s
B. 5.0s
C. 10.0s
D. 15.0s

18. Which of the following cannot he used to measure the temperature of a substance?
A. variation of pressure with temperature
B. expansively of a liquid
C. change in resistance of a conductor
D. change in colour with temperature

19. A measure of the degree of disorder in a chemical system is known as the____.
A. enthalpy
B. free energy
C. activation
D. entropy

20. When naphthalene on heating changes from solid state directly to the gas state it undergoes_____.
A. evaporation
B. sublimation

C. decomposition
D. ionization

ANSWERS TO 2015/2016 UNIZIK POST-UTME QUESTIONS

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

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

17. C 18. D 19. D 20. B

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2017/2018 UNIZIK POST UTME QUESTIONS

TIME ALLOWED: 30 MINUTES

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

1. Gone are the days when he_____ enjoy patronage.
A. would
B. will
C. could
D. up to
E. can

2. All _____ well with Peter.
A. are not
B. have not been
C. were not
D. is not
E. are

3. The Villagers looked____ their leader for good examples.
A. up to
B. on to
C. up
D. forward to
E. into

4. John failed because the examination was____ difficult for him.
A. so
B. very
C. highly
D. too
E. much

5. The dancers were all in_____ before their departure.
A. good spirits
B. good spirit
C. high spirit
D. high spirits
E. height spirit

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

6. A majority of those who sat for the last JAMB examination are **sanguine** of success.
A. hopeful
B. pessimistic
C. unsure
D. disheartened

7. When we woke up this morning, the sky was **overcast**.
A. cloudy
B. shiny
C. clear
d. brilliant

8. Enemies of progress **covertly** strife to undermine the efforts of this administration.
A. secretly
B. consistently
C. boldly
D. overtly

9. The priest was invited to **consecrate** the new building.
A. destroy
B. tarnish
C. abuse
D. pollute
E. sanctify

Choose the word(s) that best completes the meaning in the sentences

10. The door handle was shaky because the screws had_____.
A. lost
B. loosed
C. losed
D. loosened

11. Something is being done to detect the person who_____ the crime.
A. perpetrated
B. perpetuated
C. performed
D. promoted

12. The lawyer pleaded with the judge to_____ justice with mercy.
A. tempar
B. temper
C. tamper
D. taper

13. Obi bought five novels last week and has gone through all. He is totally a_____ reader.
A. vicarious
B. voracious

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C. vivacious
D. veracious

Which word is closest in meaning to the word(s) underlined.

14. Chuks will have to face the **consequences** of his rash action
A. results
B. answers
C. antecedents
D. prognosis

15. You will incur your father's **wrath** if you do that.
A. debt
B. expenditure
C. anger
D. favour

16. The **devastation** caused by the earthquake was quite shocking.
A. devaluation
B. dilapidation
C. desecration
D. destruction

17. The preacher warned the congregation against worrying unduly about **mundane** things.
A. worldly
B. celestial
C. sinful
D. immoral

18. The peace meeting nipped the crisis in the bud. This means that:
A. the crisis was averted
B. the peace meeting was deadlocked
C. members disagreed on who should receive the flower pot
D. the crisis escalated despite the peace meeting

19. Ugonna passed his examinations with flying colours. This means that Ugonna____.
A. did very well
B. wore clothes of different colours
C. was helped to pass the examination
D. cheated to pass the examination

20. Equal masses of copper and rubber are raised to the same temperature. After sometime, the copper was observed to be at a lower temperature because____.

A. the specific' heat capacity of copper is lower than that of rubber
B. copper expands more than rubber
C. the specific heal capacity of rubber is lower than that of copper
D. rubber expands more than copper

21. If two parallel wires carry currents flowing in the same direction, the conductors will____.
A. attract each other
B. repel each other
C. both move in the same direction
D. have no effect on each other

22. A hydrometer is an instrument used for measuring the____.
A. the depth of water in a vessel
B. relative density of a liquid by method of flotation
C. relative 'density of a liquid by finding the apparent loss in weight
D. relative humidity of the atmosphere

23. Find the frequencies of the first three harmonics of a piano string of length 5m, if the velocity of the string is 120m/s.
A. 60Hz, 80Hz, 120Hz
B. 180Hz, 360Hz, 540Hz
C. 120Hz, 240Hz, 360Hz
D. 360Hz, 180Hz, 90Hz

24. The conclusion from Rutherford's alpha-scattering experiment is that____.
A. atoms are mostly empty space with a small nucleus
B. emissions from radioactive substances consist of   three main components
C. there is a nuclear pun on orbital electrons
D. electrons are deflected by both magnetic and electric fields

25. The light from the sun reaches the earth mainly by_____.
A. convection
B. conduction
C. radiation
D. reflection

26. In a gas experiment, the pressure of the gas is plotted against the reciprocal of the volume of the gas al constant temperature. the unit of the slope of the resulting curve is ____.
A. force

42

B. temperature
C. power
D. work

27. Which of the following electromagnetic waves has the shortest wavelength?
A. radio waves
B. x-rays
C. infrared
D. ultraviolet

28. The principle of operation of an induction coil is based on_____.
A. Ohm's law
B. Ampere's law
C. Faraday's law
D. Coulomb's law

29. Two balls of masses 40g and 60g respectively, are attached firmly to the ends of a light metre rule. The centre of gravity of the system is_____.
A. at the mid-point of the metre rule
B. 40cm from the lighter mass
C. 40cm from the heavier mass
D. 60cm from the heavier mass

30. The expansion of solids can be considered a disadvantage in the_____.
A. fire alarm system
B. thermostat
C. riveting of steel plates
D. balance wheel of a watch
E. fitting of wheels on rims

31. An acid, X, was added to a solution of the nitrate of a metal   Y. A dense white precipitate was formed. What is X?
A. Organic acid
B. Hydrochloric acid
C. nitric acid
D. sulphuric acid

32. Pure water can best be obtained from dirty river water by_____.
A. filtration
B. distillation
C. crystallization
D. chromatography

33. Which of the following is not an industrial use of chlorine?
A. making cooking salt
B. making domestic bleaches
C. making hydrochloric acid
D. making the plastic PVC

34. Air boiled out of water as steam is richer in _____.
A. Nitrogen and oxygen
B. Carbon(I)oxide and oxygen
C. Noble gases and oxygen
D. Carbon(IV)oxide and noble gases

35. The atoms of an element which have the same number of proton and different number of neutrons are called____.
A. isotopes
B. isobars
C. isobars
D. isotones
D. isomers

36. The mass number A is given by (Z is atomic number and N is number of neutrons).
A. $A = Z - N$
B. $A = Z + N$
C. $A = N - Z$
D. $A = 2Z - 2N$

37. The silver coating on the inside of a vacuum flask reduces heat loss by_____.
A. conduction
B. radiation
C. condensation
D. convection

38. A given mass of gas occupies $2dm^3$ at 300K. A what temperature will its volume he double keeping the pressure constant?
A. 400K
B. 480K
C. 550K
D. 600K
E. 500K

39. If $x-1$ is a factor of $3x^3+px^2 + 5x-3p$, find value of p.
A. -2
B. 2
C. 4
D. 3

40. Find the value of x for which $3(2^{4x+3}) = 96$
A. 2
B. -2
C. ½
D. −½

43

41. Find the range of values of x for which
7x−3 > 3x+4
A. x<⁷/₄
B. x>⁷/₄
C. 7x<4
D. -4x<7

42. The minimum value of y = x²−4x−5 is_____.
A. 2
B. −2
C. 13
D. -13

43. The chances of three independent events X, Y, Z occurring are ½ , ²/₃, ¼ respectively. What are the chances of Y and Z only occurring?
A. ¹/₈
B. ¹/₂₄
C. ¹/₁₂
D. ¼

44. Find the number of sides of a regular polygon if each of the interior angle of the polygon is 150.
A. 6
B. 9
C. 8
D. 12

45. Simplify $\dfrac{1\frac{1}{2}}{2\div\left(\frac{1}{4}\,of\,16\right)}$
A. 3
B. 4
C. 9
D. 10

46. Which of the following lines is not parallel to the line x−2y = 5?
A. x − 2y + 7 = 0
B. 2x − 4y − 1 = 0
C. x + 2y −3 = 0
D. 16x −32y + 9 = 0

47. If SinA = $\frac{4}{5}$ and CosB =$\frac{12}{13}$. Find the value of Sin (A + B).
A. $\frac{63}{65}$

B. $\frac{23}{65}$

C. $\frac{8}{64}$

D. 2
E. 5

48. How much will ₦200,000 amount to at 12% simple interest over 4 years.
A. ₦396,000
B. ₦296,000
C. ₦196,000
D. ₦396,000
E. ₦729,000

49. Given that $\sqrt[3]{4^{2x}}$=16, find x
A. 2
B. 3
C. 4
D. 6

50. Factorize 35−2b−b²
A. (35−2b)(b−1)
B. (7 + 13)(5−b)
C. (3 + 7)(5−b)
D. (35−b)(3b+7)
E. (7+B)(5+b)

SOLUTION TO 2017/2018 POST-UTME QUESTIONS

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

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

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

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

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

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

45. A 46. A 47. A 48. B 49. B 50. B

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