SINDH MDCAT PAPER 2016

NTS past paper 2016
ENGLISH

Complete the sentences by choosing the most appropriate option from the given lettered choices (A to D/E) below each.

1. The examination will _____ in ten minutes time.

    A. finish
    B. finished
    C. Shall finish
    D. had finish

2. I forgot _____ take down his telephone number.

    A. too
    B. to
    C. on
    D. of
    E. in

Identify the word or phrase that needs to be changed for the sentence to be correct:

3. **The** last bus **leave** in five **minutes**, and the trams **stop** running
   A   B   C   D

too. **No error**
     E

4. **Some** people have **successfully** taken up **painting** quite **late** in life.
  A   B   C   D
No error.
  E

Choose the word most similar in meaning to the capitalized one.
5. **WORTH:**

    A. value
    B. dearth
    C. weakness
    D. burden

6. **ANCIENT:**

    A. modern
    B. old
    C. current
    D. vacant

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

7. **FORTUNE:**

    A. luck
    B. capital
    C. bad luck
    D. wealth

8. **INITIATE:**

    A. start
    B. finish
    C. originate
    D. collapse

Read the passage to answer questions 9-10
If a writer has a point of view on some such subject as religion, politics or history, and wishes to persuade readers to accept his point of view, he is not likely to state his point of view tersely and leave it at that. He will bring forward the evidence that supports his point of view. He will argue from that evidence to his conclusions. Like a lawyer he may call evidence from different sources, all.in support of his main case. Some parts of his evidence and argument may be less important than others and may be discarded altogether in a summary or presented in less detail. A writer whose aim is to persuade is likely to repeat some of the assertions of key importance to his argument so that the reader may not forget them, but in a summary once a thing is said It need not be said again. The writer of a summary must first of all be absolutely certain what case the writer of the original passage is making - what set of facts or opinions he is trying to establish - and the summary must convey the real message of the passage fully and clearly. Important statements essential to the writer's argument must be preserved.

9. **If someone wants to persuade his readers to his point of view on subjects like religion, politics or history then he has to:**

    A. simply state his point of view tersely
    B. provide evidences for his conclusions
    C. he has to forcefully implement his beliefs
    D. he has to provide only the summary

10. **A summary writer:**

    A. needs to explain things again and again
    B. must write every important or less important information equally
    C. must convey the real message of the passage fully and clearly
    D. needs to give his own arguments & views in summary .

PHYSICS

11. If vector $\vec{A}$ is perpendicular to vector $\vec{B}$ i.e. $\theta = 90°$, or one of the two vectors is a null vector then A. B = ?

A. 0
B. 30
C. 45
D. 90
E. 180

12. An orange is dropped from the top of a tower. If it takes 10 seconds to hit the ground, find the height of the tower? $(g=9.8 \ m/s^2)$

A. 280 meters
B. 310 meters
C. 390 meters
D. 490 meters
E. 510 meters

13. A vehicle travelling at a constant speed of 60 km/h rounds a curve of radius 100 m, find its acceleration?

A. 1.777 m/s^2
B. 2.777 m/s^2
C. 3.777 m/s^2
D. 4.777 m/s^2
E. 5.777 m/s^2

14. An 80 kg man runs up a hill through a height of 4 m in 3 seconds. How much work does he do against gravitational forcés? $(g=9.8m/s^2)$.

A. 2136 J
B. 3136 J
C. 4136 J
D. 5136 J
E. 6136 J

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15. **A body with a mass of 0.2 kg is attached to a spring and placed on a horizontal frictionless table. The string is stretched 30 cm, when a force of 6 N is applied. What is its spring constant?**

     A. 5 N/m
     B. 10 N/m
     C. 15 N/m
     D. 20 N/m
     E. 25 N/m

16. **Identify the technical and scientific application/s of polarization of light in our daily life:**

  I. The determination of the concentration of optically active substance such a sugar.
II. In photography, to enhance the effect of sky and clouds.
III. It is used in photography under water.

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

17. **What will be the magnification of the lens, when an object is placed at a distance of 60 cm from a concave lens of focal length 30 cm ?**

     A. 1/3
     B. 1/5
     C. 1/7
     D. 1/9
     E. 1/11

18. **What is the volume occupied by a gram-mole of a gas at $0°C$ pressure of of one atmosphere? (R=8.314 J/mole.K)**

     A, 12.4 liters/mole
     B. 14.4 liters/mole
     C. 16.4 liters/mole
     D.18.4 liters/mole
     E. 22.4 liters/mole

19. **An object is lifted 5 m above leveled ground, mass of object is 20 kg and acceleration due to gravity is 10 N kg, potential energy of the object is:**

    A. 400 J
    B 1000 J
    C. 2.5 J
    D. 0.4 J

20. **Two capacitors C_1 (6μf) and C_2 (12μF) are in series connected across a 180 volts d.c. supply. Calculate the charges on C_1 and C_2 respectively,**
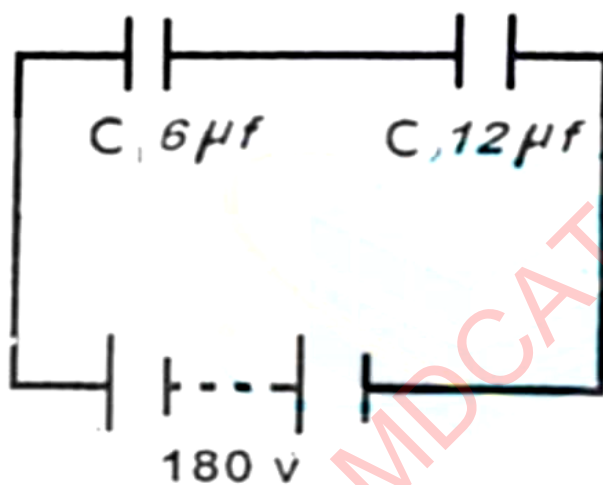
    A. 120×10^{-6} C, 420×10^{-6} C
    B. 320×10^{-6} C, 420×10^{-6} C
    C. 420×10^{-6} C, 320×10^{6} C
    D. 720×10^{-6} C, 720×10^{6} C
    E. 820×10^{-6} C, 420×10^{6} C

21. **The units of length, time and mass in SI units are the same as the units of these quantitles in _____.**

    A. MKS system
    B. CGS system
    C. ft-lb system
    D. Both B and C

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22. **Three words are shown below:**

non-zero   **Isobarle**   **Isobarically**

These words can be uned in the spacos P, Q and R to complete me sentences below.

_____ P_____ Process ls that process which takes place at constant pressure. In such a process the heat transferred and the work are both _____ Q_____When water enters the boller of a steam engine and is heated to its bolling point, vaporized and then the steam is superheatad, all these processos take place__R___ Such. processes play an important role in mechanical engineering

	Isobaric	Non-zero	Isobarically
A	R	Q	P
B	R	P	Q
C	P	Q	R
D	Q	R	P

23. **Resistance of a wire Is R. Il you Increase the length of wire such that Its length doubles. The stretched wire will have resistivity:**

A. R/2
B. R
C. 2R
D. 4R

24. **If modulated signal frequency Is represented by f_m carrier frequency by fc fmin and fmax represent minimum and maximum values respectively than upper sideband refers to the range:**

A. Fc – fmax to fc - fmin
B. Fc + fmin to fc + fmax
C. Fc – fm
D. Fm - fc

25.**In SI system of Units, the'unit of power is _____.**

A. Joules
B Ergo
C.Watts
D. Watt-hours

26. If 'T' Is the tension and 'μ' the mass per unit length of the stretched wire in a sonometer, the velocity of wave produced on bringing a tuning fork near it is:

A. $v = \mu T$
B. $v = (\mu / T)^{1/2}$
C. $v = T/\mu$
D. $v = (T/\mu)^{1/2}$

27. An astronomical telescope is constructed using _____ objective lens and _____ eyepiece.

A. Convex ... concave
B. Convex ... convex
C. Concave ... concave
D. Concave ... convex

28. The relationship for X-ray diffraction in atomic layers of crystals with spacing 'd' amongst the crystal planes, is:

A. $m\lambda = d \sin\theta$
B. $2m\lambda = d \sin\theta$
C. $m\lambda = 2d \sin\theta$
D. $(2m+1)\lambda = 2d \sin\theta$

29. When interference between thin films occurs, the path difference between two interfering rays is 2t. If 'n' is the refractive index of the medium, the bright circles are obtained when_____ with m=0, 1, 2, 3, ...

A. $2m = nt$
B. $m\lambda = 2nt$
C. $(2m+1) \lambda = 2nt$
D. $(2m+1) \lambda = 4nt$

30. The ground level of Hydrogen atom has energy value in eV:

A. 13.6
B. 1.36
C. -1.36
D. - 13.6

31. If T_1 is the temperature of the hot body and T_2 Is the temperature of the cold body, the efficiency of a Carnot engine is given by:

   A. $1 - (T_1 / T_2)$
   B. $1 - (T_2 / T_1)$
   C. $(T_1 / T_2) - 1$
   D. $(T_2 / T_1) - 1$

32. 0n Fahrenheit scale lower point is marked 32 and upper point 212. Interval between them is equally divided into _____ equal parts.

   A. 190
   B. 180
   C. 100
   D. 200

33. Radioactivity results in ionization 'in' materials. The Ionizing power of _____ is highest.

   A. X rays
   B. α rays
   C. β rays
   D. γ rays

34. During the process of nuclear disintegration, when beta particle emission occurs, atomic no of the atom changes by ____ and its mass number changes by _____.

   A. one unit ... one unit
   B. one unit ... no units
   C. no units ... one unit
   D. no units ... no units

35. The radio isotopes radiating Gamma rays, advisable for treatment of patients need to have _____ half-life.

   A. long
   B. short
   C. intermediate
   D. any arbitrary

36. **4 resistors of 10 Ohm each are connected in an electric circuit In series. Their combined effect is equivalent (In Ohm) to:**

   A. 10
   B. 20
   C. 30
   D. 40
   E. 50

37. **A steady current of 5 A is drawn from an electric source working at a voltage of 100 v. The power consumed (In Watts) is _____.**

   A. 0.05
   B. 5
   C. 500
   D. 50000

38. **The magnetic field of induction B is measured in the units which are equivalent to:**

   A. Newton / Coulx meter / sec
   B. Newton / Ampere x meter square
   C. Newton / Ampere x meter
   D. Both A and C

39. **Which of the following waves are electromagnetic waves?**

   A. X rays
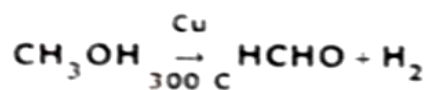   B. Beta rays
   C. Alpha rays
   D. Proton rays

40. **The spectral serles of Hydrogen spectra that lies in ultraviolet region is:**

   A. Balmer Serles
   B. Braket Serles
   C. Lyman serles
   D. Paschon series

CHEMISTRY

41.1 dm³ of methyl alcohol is heated over Cu at 300°C; we get:

$$CH_3OH \xrightarrow[300\ C]{Cu} HCHO + H_2$$

The volume in dm³ of hydrogen gas obtained is:

A. 0.5 dm³
B. 1 dm³
C. 1.5 dm³
D. 2 dm³
E. 2.5 dm³

42. Cathode rays:

A. are heavy in the case of bigger atoms
B. are light in the case of smaller atoms
C. are more intense in the case of radioactive atoms
D. depend on the nature of the gas
E. are independent of the nature of the gas

43.Pauli Exclusion Principle states that no two electrons can have the entire four quantum numbers same. According to this principle which of the following pairs of atoms shows difference in their Principle Quantum Number?

A. H & He
B. Li & Be
C. Na & K
D. Na & Mg
E. K & Ca

44.C_2H_5 -OH boils at a higher temperature than CH_3 -O– CH_3 though both have the same molecular formula C_2H_6O. The reason is the alcohol has:

A. ionic bonding
B. covalent bonding
C. electrovalent bonding
D. polar bonding
E. H-bonding

45.**For a 51% Ionic molecule, the difference in EN is:**

    A. 1.5
    B. 1.7
    C. 1.9
    D. 2
    E. 2.1

46.**At 100°C, 0.1 mole of N_2O_4, is heated in a one dm^3 flask. At equilibrium concentration of NO_2 was found to be 0.12 moles. Calculate Kc for the reaction.**

    A. 0.12
    B. 0.36
    C. 0.21
    D. 0.012
    E. 0.02

47.**In the commercial electrochemical process for aluminium extraction, the electrolyte used is:**

    A. $Al(OH)_3$ in NaOH solution
    B. an aqueous solution of $Al_2(SO_4)_3$
    C. a molten mixture of Al_2O_3, and Na_3AlF_6
    D. a molten mixture of $AlO(OH)$ and $Al(OH)_3$

48.**Balmer series is important as:**
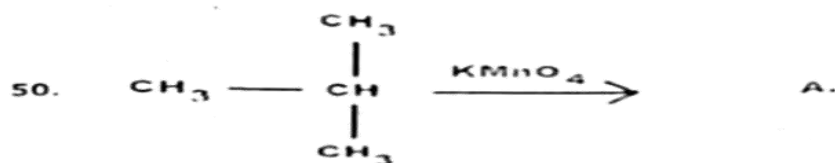
    A. it is the first series
    B. it gives sharp lines
    C. it lies in visible region
    D. it was first discovered
    E. it has minimum energy

49. **Which of the following compounds is expected to be coloured?**
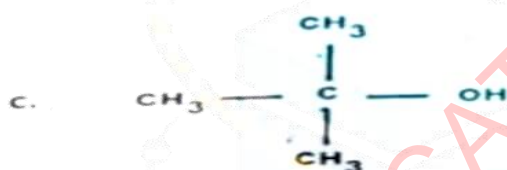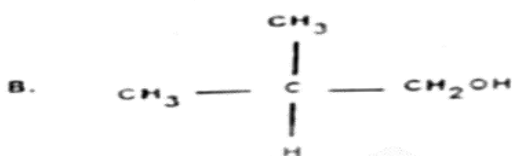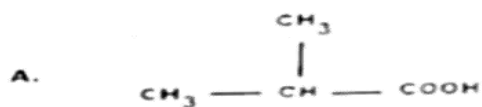   A. Ag_2SO_4
    B. CuCL
    C. MgF_2
    D. CuF_2

50.

50.

$$CH_3 \overset{\overset{\displaystyle CH_3}{\displaystyle |}}{\underset{\underset{\displaystyle CH_3}{\displaystyle |}}{CH}} \xrightarrow{KMnO_4}$$

A.

Where A is:

A. $$CH_3 \overset{\overset{\displaystyle CH_3}{\displaystyle |}}{—CH—} COOH$$

B. $$CH_3 \overset{\overset{\displaystyle CH_3}{\displaystyle |}}{\underset{\underset{\displaystyle H}{\displaystyle |}}{—C—}} CH_2OH$$

C. $$CH_3 \overset{\overset{\displaystyle CH_3}{\displaystyle |}}{\underset{\underset{\displaystyle CH_3}{\displaystyle |}}{—C—}} OH$$

D. CH_3COCH_3

51. Mark the correct statement about hydrides of group V-A:

    A. The hydrides of Group V-A are covalent.
    B. The hydrides of Group V-A are Ionic.
    C. Hall of the hydrides of Group V-A are covalen half are Ionic.
    D. None of the hydride of V-A are covalent.

52. Nylon 6, 6 is prepared by the condensation of:

    A. dipic acid and hexamethylene diamine
    B. Adipic acid and tetramethylene diamine
    C. Phenol and formaldehyde
    D. Diol and dichrboxylic acid

53. α-amino acids arc compounds having carboxylic acid as well as amino functional groups attached to:

    A. Any C-atom in the molecule
    B. Alternate carbon atoms
    C. Neighboring carbon atoms
    D. Same carbon atom

54. An Alkyl halide reacts with ammonia to yield:

    A. Amide
   B. Cyanide
    C. Amine
    D. Imine

55. $_NS^2$ reaction can be best carried out with:

    A. Primary alkyl halide
    B. Sec-alkyl halide
    C. Tert-alkyl halide
    D. All react with similar mechanism

56. The arrangement of element in the ascending order of atomic weight is made by _____.

    A. Ingold
    B. Hughies
    C. Newland
    D. J.W Dobereiner

57. Which of the following element is needed to the following element is needed to add in the given diagram to make it aromatic phenol?
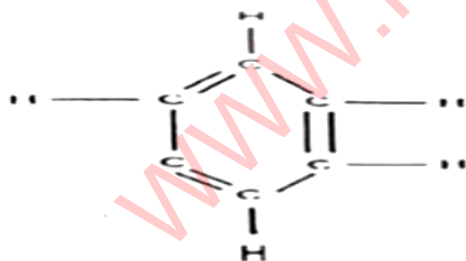
    A. -H
   B. -OH
    C. -CH
    D. $-H_2$

58.Four words are shown below:

similar polar solvents electrostatic Solvation   Lattice energy
Ionic compounds are soluble in water and _P_because of the
strong__Q__attractions between the ions and polar molecules of solvent.
The surrounding of the ions by the solvent molecules__ R___ releases the
energy which is known as the energy of solvation. This energy usually
overcomes the high___ S_____ of the ionic compound.

	Lattice energy	Similar polar solvents	Electrostatic	Solvation
A.	S	Q	R	P
B.	P	Q	S	R
C.	S	P	Q	R
D.	R	S	P	Q
E.	P	Q	R	S

59. **What is the product of the below reaction?**
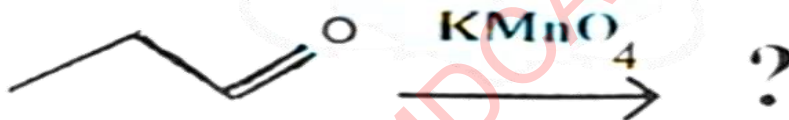
A. $C_3H_7 OH$
B. $C_2H_5 COOH$
C. $C_3H_7 CHO$
D. $CH_3 COOH$

60. The IUPAC name for the structure below ends with what suffix?

A. -ol
B. -ide
C. -oic acid
D. -yne

61. **The term $+ d_x/dt$ in the rate expression refers to the:**

    A. Decrease in concentration of the reactant x
    B. Instantaneous rate of the reaction
    C. Increase in concentration of the reactant x
    D. Increase in solubility of the reactants

62. **In which of the following reactions $Kp > Kc$?**

    A. $2SO_2 + O_2 \Longleftrightarrow 2SO_3$
    B. $N_2 + 3H_2 \Longleftrightarrow 2NH_3$
    C. $PCL_5 \Longleftrightarrow PCL_3 + CL_2$
    D. $N_2 + O_2 \Longleftrightarrow 2NO$
    E. Both c and d

63. **Meta directing group is:**

    A. -OH
    B. -OR
    C. -COR
    D. -NHR

64. **A sample of ideal gas has a volume of 128 ml at -27 °C to what temperature must the gas be heated at constant pressure if final volume is to be 214 ml?**

    A. 120°C
    B. 130°C
    B. 138° C
    D. 140°C
    E. 150°C

65. **6,7-dimethyl-9-D-Pribitylosoalloxazine is the IUPAC name of:**

    A. Nicotinic acid
    B. Riboflavin
    C. Thiamine
    D. Antirachitic
    E. Tocopherol

66. **Fuming sulphuric acid contains:**

    A. SO_4
    B. SO_3
    C. S_3O_3
    D. S_2O_3
    E. $SO2..$

67. The principle quantum number is related to the:

    A. Orbital angular momentum
    B. Size of the orbital
    C. Orientation of the orbital
    D. Spin of orbital

68. Geometrical isomerism in alkenes is due to:

    A. Restricted rotation about $C = C$ bond
    B. Free rotation about $C = C$ bond
    C. Optical rotation about $C = C$ bond
    D. Oscillation of H-atom between two polyvalent atoms

69. Trend of ionization energy in a group from top to bottom is:

    A. increases
    B. decreases
    C. remain same
    D. increases then decreases
    E. constant

70. The catalyst used in Friedel Craft reaction is:

    A. $FeCL_3$
    B. PVC
    C. Pt / Pd / Ni
    D. $AICI_3$

BIOLOGY

71. All of the following are correct regarding parenchyma tissue EXCEPT:

A. They are found in the epidermis, pith and cortex
B. The whole body of Bryophytes is made up of these tissues
C. They are loosely packed with intercellular spaces in leaves
D. They are of two types namely fibers and sclereids

72. The lower two pairs of ribs are

A. True ribs
B. False ribs
C. Floating ribs
D. Articulated ribs

73. Genetically isolated unit of population is known as:

A. Deme
B. Gene
C. Biom
D. Specie

74. Micronutrient in abiotic components, is _____.

A. Carbon
B. Hydrogen
C. Potsassium
D. Iron
E. All of the above

78. **Which of the following processes occur in the vascular tissue in leaves and in roots?**

	In Leaves	In roots
A	Sucrose enters phloem and is polymerized to starch	Water passes from phloem to xylem by osmosis
B	Sucrose enters phloem by active transport and the water potential become more negative.	Root pressure & transpiration pull are responsible for ascent of sap.
C	Water passes from phloem to xylem by osmosis making the phloem water potential less negative	Active transport of water into xylem makes the water potential more negative.
D	Water passes out of and phloem and is lost through transpiration	Active transport of salts into the pericycle make the water potential there high

79. **In the diagram showing the bronchial tree given below, parts have been indicated by alphabets. Choose the answer in which th alphabets correctly match with the parts they indicate.**
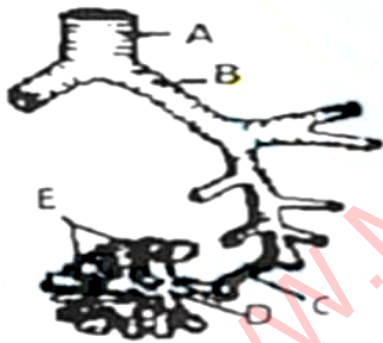
A. A=trachea, B=bronchus, C= respiratory bronchlole, D=alveolar duct, E=alveoli.

B. A=trachea, B=bronchus, C=alveolar duct, D=respiratory bronchiole, E=atrium.

C .A=bronchus, B= alveolar duct, C=respiratory bronchiole, D= trachea, E=alveoli

D. A = trachea, B=alveolar duct, C=respiratory bronchiole, D-bronchus, E=alveoli

80.Match the hormones listed under Column I with the roles given under Column II. Choose the answer which gives the correct combination of the alphabets of the two columns

	Column I (Hormones)		Column II (Roles)
A	FSH	P	Preparation of endometrium for implantation
B	LH	Q	Female secondary sexual characters
C	Progesterone	R	Contraction of uterine muscles
D	Estrogen	S	Development of corpus luteum
E		T	Maturation of follicle

    A. A-t; B=s; C=p; D=q
    B. A=r;B=t;C=s;D=q
    C. A=t;B=p;C=s;D=q
    D. A=q;B=s;C=p;D=r

81.Sickle cell haemoglobin differs from normal haemoglobin because of a single change in an amino acid; Valine replaces glutamic acid Coding triplets in DNA for glutamic acid are CTT and CGT Coding triplets in DNA for valine are CAA and CAG. Which mRNA codon would produce sickle cell hemoglobin if substituted for the normal mRNA codon?

    A. GAA
    B. GTC
    C. GTT
    D. GUC

82.The diagram shows the inheritance of haemophilia in a family:
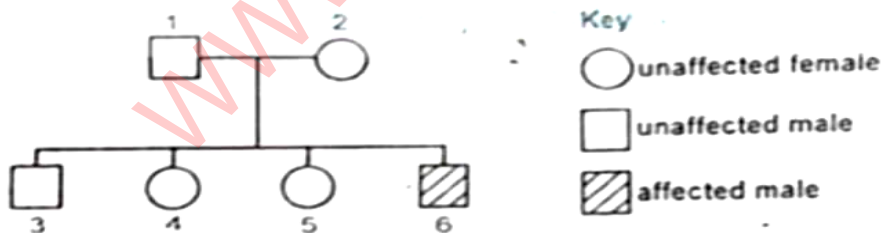
If daughter 4 married a normal male, what is the probability that their first child would suffer from haemophilia?
    A. 0
    B. 0.125
    C. 0.25
    D. 0.5

83. The below given are the characteristics of which of the following ecosystem?

I.   Includes tropical grasslands
II.   Rainfall is upto 125cm per year
III.   Dry season is very long
IV.   Primary consumers include Zebras, giraffes and elephant etc
V.   Euphorbia is an example of its plant life

        A. Tropical rain forests
        B. Coniferous forests
        C. Savannah
        D. Tundra

84. Enzyme carbonic anhydrase in RBCs help in _____ transportation.
A. Oxygen
B. Iron
C. Calcium
D. Carbon dioxide

85. The tendency of a solution to take up water when separated from pure water by a selectively permeable membrane is called.

        A. Osmotic pressure
        B. Turgor potential
        C. Diffusion pressure deficit
        D. Water potential

86. Cranium (a part of the skull) forms the brain box and consist of bones.

        A. 10
        B. 08
        C. 05
        D. 03

87. Which of the followings is the fungal disease?

        A. Pneumonia
        B. Tinea corporis
        C. Taeniasis
        D. Amebiasis

88. **Ribose and ribulose are the example of _____ class**

    A. Triose
   B. Tetrose
    C. Pentose
    D. Hexose

89. **which method of gaining immunity can be described as natural active immunity?**
    A. Feeding on colostrum
    B. Inhallng the chicken pox virus
    C. Injection with antibodies.
    D. Through the placenta

90. **During ventricular systole:**

A. Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary vein

B. Oxygenated blood is pumped into the pulmonary artery and deoxygenated blood is pumped into the aorta

C. Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary artery.

D. Oxygenated blood is pumped into the pulmonary artery and deoxygenated blood is pumped into the pulmonary vein.

91. **The diagram shows a neurone.**
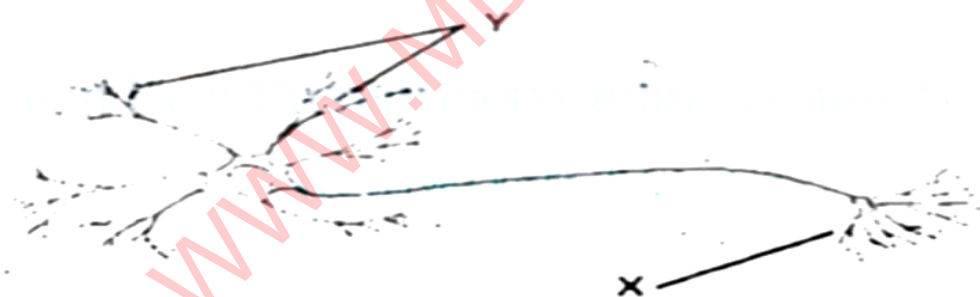
Which of the glven structures could be found at X and Y?

	X	Y
A	Brain	Intestine
B	Brain	Leg
C	Eye	Hand
D	Skin	Spinal Cord

92. Which of the following contains enzymes for the detoxification of alcohol?

    A. Ribosomes
    B. Peroxisomes
    C. Glyoxysomes
    D. Lysosomas

93. An Inter-breeding population of finches became separated geographically, forming two isolated groups. Each group became subject to different selective pressures. on group was introduced into the habitat of the other.
Which one of the following would determine whether they now formed two distinct species?

    A. They had been separated for more than three million years.
    B. They failed to produce fertile F, hybrids.
    C. They showed marked differences in the shape of their breaks
    D. Their plumage had become markedly different.
    E. Several genes now possessed different base sequences.

94. Four tubes were set up under certain conditions as a shown in the table.

Tubes	Conditions	Contents
1	Oxygen deficit	Pyruvate + yeast
2	Oxygen rich	Glucose + facultative aerobes
3	Oxygen rich	Glucose + an animal cell containing mitochondria
4	Oxygen deficit	Pyruvate + obligate aerobes

After Incubation, each sample was analysed to determine the presence of carbon dioxide and lactate.
In which tubes is lactate most likely to be present?

    A. 1 and 2 only
    B. 2, 3, and 4 only
    C. 1 and 4 only
    D. 1, 2 and 3 only

95. **Which of the following statements describe sliding joints?**

I. These joints allow bone to slide over another bone to make movement in many directions
II. Vertebrae are linked by sliding joints
III. These joints don't allow the joining bones to move
IV. Bones of ankle or wrist are connected by sliding joints

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

96. **The components of feedback mechanism are _____.**

      A. Receptors, Insulators, Effectors
      B. Receptors, Suppressors, Effectors
      C. Receptors, Control centre, Effectors
      D. Receptors, Depressors, Effectors

97. **Which of the following processes occur by mitosis?**

    I.   cloning of plasma cells
    II.   gamete production
    III.   replacing damaged cells

      A. II only
      B. III only
      C. I and III only
      D. I, II and III

98. **Plasmodium belongs to class _____.**

      A. Flagellate
      B. Sarcodina
      C. Sporozoa
      D. Ciliate

99.Pistal is the part of:

    A. Sepal
    B. Petal
    C. Stamen
    D. Carpel

100. Group Deuterostomata includes phylum:

    A. Chordata
    B. Annelida
    C. Arthropoda
    D. Echinodermata
    E. Both A and D

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