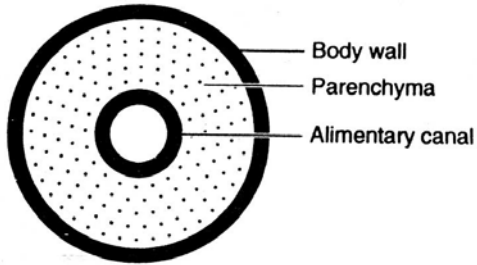
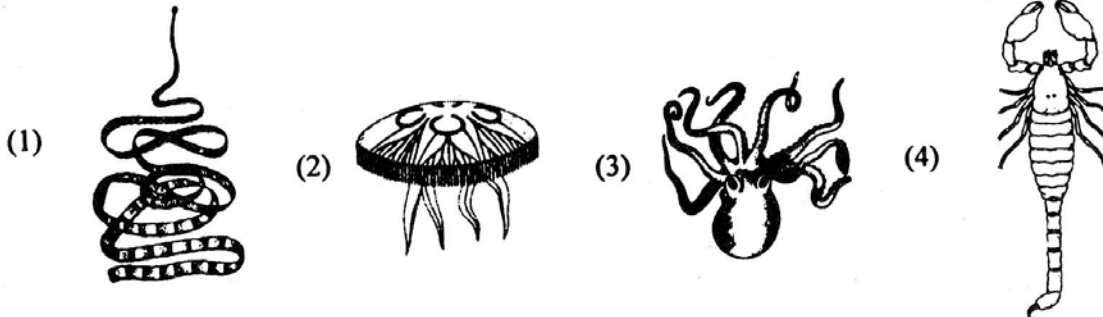


17. In understanding different types of symmetry, the term used as principal axis means:
- A flat area that runs through any axis
 - An imaginary straight line joining two opposite points at the ends
 - An imaginary straight line joining the mid point at one end and the mid point at the opposite end
 - An imaginary line passing through focus.
18. Which of the following option is correct?
- A) If a bone is kept in HCl for some time, its inorganic part is dissolved and organic part is left behind
- B) If a bone is burnt, its inorganic matter is destroyed and organic part is left behind
- A is correct, B is incorrect
 - B is correct, A is incorrect
 - Both A & B are correct
 - both A & B are incorrect
19. Which of the following is not correct w.r.t cartilage?
- Intercellular material of cartilage is solid and pliable
 - It resists compression
 - All the cartilages in vertebrate embryo are replaced by bones in adult
 - Chondrocytes are cells of cartilage
20. Which of the following forms the inter nasal septum
- Fibrous cartilage
 - hyaline cartilage
 - elastic cartilage
 - calcified cartilage
21. The cross section of the body of an invertebrate is given below. Identify the animal which has this body plan



- Planaria
 - Earthworm
 - Cockroach
 - Roundworm
22. The figure shows four animals (1), (2), (3) and (4). Select the correct answer with respect to common characteristics of two of these animals



- (3) and (4) have a true coelom
 - (1) and (4) respire mainly through body wall
 - (2) and (3) show radial symmetry
 - (1) and (2) have cnidoblasts for self-defence
23. The percentage of total volume occupied by RBCs is
- haematuria
 - haemolysis
 - hematocrit
 - haemophilia

24. **Study the following and identify the set of correct statement(s) pertaining to mature mammalian RBCs.**
i. They are circular, biconcave and enucleate in all mammals.
ii. They are elliptical in shape in camels and Llamas.
iii. The total RBCs count in a woman is more than that of a man.
iv. Erythropoietin stimulates spleen to enhance the production of RBCs at very high altitudes.
a) I & IV b) II & IV c) II only d) III only
25. **Identify the pair of vitamins which are essential for the maturation of RBC in man.**
a. pyridoxine & pantothenic acid b. cyanocobalamine & riboflavin
c. pantothenic acid & ascorbic acid d. cyanocobalamine & folic acid.
26. **The WBCs that remove antigen and antibody complexes are those with**
a. fewer and irregular granules in cytoplasm.
b. a nucleus which is divided in to irregular lobes.
c. a nucleus which is distinctly bilobed
d. specific, small and abundant granules.
27. **Arrange the following in the descending order based on their % in total leucocyte count:**
I. monocytes II. neutrophils III. basophils
IV. Lymphocytes V. eosinophils
a. I-II-III-IV-V b. II-IV-I-V-III c. II-IV-III-V-I d. II-IV-I-III-V
28. **Identify the correct statements.**
I. Lymph is blood without RBCs, large plasma proteins and platelets.
II. Lymph has more nutrients than blood.
III. Interstitial fluid is returned directly to blood due to hydrostatic pressure at the arteriolar end.
IV. Most of the intestinal fluid is returned at the venule end directly due to Osmotic pressure.
a. I&IV b. II&III c. I&III d. I&II
29. **Study the statements given below.**
I. ECF contains relatively more nutrients and oxygen than lymph.
II. ECF contains water, solutes, proteins of low molecular weight and WBC.
III. Lymph capillaries of intestinal villi are lacteals.
IV. ECF is considered as Middleman between blood and tissues.
a. I&II are incorrect b. I, II, III & IV are correct
c. IV only is correct d. III only is correct
30. **Study the following with reference to cardiac muscle and choose the correct set of statements.**
I. Myocardial cells are short, cylindrical and branched at the ends.
II. Myocardial cells are uninucleated or binucleate.
III. The adjacent myocardial cells are joined by gap junctions/electrical synapses.
IV. Intercalated discs are characteristic of cardiac muscle.
a. only I&II b. only II & III c. except I d. I, II, III and IV
31. **Due to the presence of multinucleate condition, the skeletal muscle fibre is described as:**
a. polyploidy b. polykaryon c. syncytial d. coenocytic.
32. **The largest muscle in human body is:**
a. quadriceps b. stapedius c. gluteus Maximus d. gastrocnemius.
33. **Which of the one of the following tissues in man shows the least capacity for regeneration?**
a. epithelium of skin b. endothelium of blood vessels
c. skeletal tissue of long bones d. nervous tissue of brain
34. **Bipolar neurons are found in:**
a. sensory cells of the internal ear b. retina of eye
c. olfactory sensory epithelium d. all the above.

35. **Identify the correct statement with regard to the node of Ranvier:**
 a. It is covered by myelin sheath
 b. Axolemma is discontinuous at nodes of Ranvier.
 c. Myelin sheath is discontinuous at the nodes of Ranvier.
 d. Both neurilemma and myelin sheath are discontinuous at nodes of Ranvier
36. **Assertion (A): Mammary gland is an example of apocrine gland**
Reason (R): Mammary gland releases secretion by pinching the apical portions of the cells
 a) If both A & R are true and the reason is the correct explanation of the A
 b) If both A & R are true, but the reason is not the correct explanation of the A
 c) If A is true statement, Reason is false
 d) If both A and R are false statements
37. **Assertion (A): RBC of mammals are enucleated**
Reason (R): The absence of nucleus in mammalian RBC helps to accommodate maximum amount of haemoglobin
 a) If both A & R are true and the reason is the correct explanation of the A
 b) If both A & R are true, but the reason is not the correct explanation of the A
 c) If A is true statement, Reason is false
 d) If both A and R are false statements
38. **Assertion (A): Visceral muscles are smooth muscles.**
Reason(R): The myofibrils of smooth muscle fibres do not show cross bands due to regular arrangement of Thin and thick myofilaments.
 a) If both A & R are true and the reason is the correct explanation of the A
 b) If both A & R are true, but the reason is not the correct explanation of the A
 c) If A is true statement, Reason is false
 d) If both A and R are false statements
39. **Smooth muscle fibres**
 I. are fusiform & uninucleated cells
 II. Are involuntary in function
 III. Do not perform slow and sustained contractions
 IV. Do not show striations due to regular arrangement of actin and myosin filaments.
 Choose the incorrect set of statements.
 a. I & II b. III & IV c. II & III d. I & IV
40. **The 3rd key transition in the evolution of animal body plan is**
 a. Cellular level b. Tissues c. Bilateral symmetry d. *Body cavity.
41. **Study the following table.**

S.No	Epithelium	Feature	location
A	Stratified & cuboidal	Cells in apical layer are cube shaped.	Ducts of sweat glands.
B	Stratified & columnar	Cells in the apical layer are columnar.	Conjunctiva of eye
C	Transitional	Superficial cells are squamous in undescended state.	Urinary bladder
D	Pseudo-stratified & ciliated columnar	Mucus traps foreign particles	trachea

- a. Only A&B are correct b. A&B is incorrect
 c. A,B and D are incorrect d. Except C others are correct

42. **Most of the neurons of our body are:**
 a. bipolar b. unipolar c. multipolar d. pseudo-unipolar

43. Nissl's granules are made up of:
 a. fat granules b. ribosomes c. mitochondria d. lysosomes.
44. The products of cellular wear and tear accumulating in lysosomes with age are
 a. Nissl granules b. lipofuscin granules c. boutons d. chromatoid bodies
45. The soma of a sensory or pseudo unipolar neuron is located in:
 a. ventral root of a spinal nerve b. dorsal root ganglion of a spinal nerve
 c. dorsal funiculus of a spinal cord d. ventral funiculus of a spinal cord.

KEY FOR MOCK TEST PAPER ON ANIMAL ORGANISATION

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

QUESTION BANK EXERCISE—3

NOTE: follow the options given below to mark your response

A. If assertion and reason are correct and assertion is the proper explanation.

B. If A and R is correct and R is not an explanation to A.

C. If A is and R is false D. If both A&R are false

1. The grade of organization in sponges is
 a) Cellular grade b) cell-tissue grade
 c) Protoplasmic grade d) organ-system grade
2. Metazoans without tissue grade organization are called
 a) Parazoans b) Protozoans c) Deuterostomians d) Eumetazoans
3. Cell-tissue grade of organization occurs in
 a) Hydra b) Sponge c) Starfish d) Liver fluke
4. Which level of organization is found in majority of animals?
 a) Cellular grade b) cell-tissue grade
 c) tissue-organ grade d) organ system grade
5. Match the phyla listed under column-I with the level of organization given under column-II. Choose the answer which given the correct combination of the alphabets of the two columns
- | | |
|-------------------------------|--------------------------------|
| Column-I | Column-II |
| (Phylum) | (Level of Organization) |
| A) Porifera | P) Cell-tissue |
| B) Protozoa | Q) Protoplasmic |
| C) Cnidaria | R) Organ-system |
| D) Chordata | S) Cellular |
| a) A = S, B = Q, C = P, D = R | b) A = Q, B = R, C = S, D = P |
| c) A = S, B = R, C = Q, D = P | d) A = R, B = Q, C = S, D = P |
6. An animal without anus is
 a) Unio b) Pheretima c) Fasciola d) Periplanata

7. **Which of the body plan is found in nematodes?**
a) Blind sac
b) Cell aggregate
c) Tube-within-a-tube
d) None of these
8. **Majority of adult sponges show**
a) Asymmetry
b) radial symmetry
c) Bilateral symmetry
d) biradial symmetry
9. **Radial symmetry occurs in**
a) Porifera and Coelenterata
b) Arthropoda and Mollusca
c) Coelenterata and Echinodermata
d) Mollusca and Echinodermata
10. **Which of the following metazoan phyla are grouped under the Radiata?**
a) Arthropoda and Porifera
b) Cnidaria and Ctenophora
c) Mollusca and Coelenterata
d) Mollusca and Echinodermata
11. **Which symmetry is exhibited by sea walnuts?**
a) Bilateral
b) Radial
c) Spherical
d) Biradial
12. **Which of the following is strongly associated with cephalization?**
a) Asymmetry
b) Radial symmetry
c) Bilateral symmetry
d) Biradial symmetry
13. **Bilateral symmetry is absent in**
a) Frog
b) Obelia
c) Octopus
d) Mammal
14. **The number of lateral oesophageal hearts in Pheretima is:**
A.2
b.4
c.4pairs
d.8pairs
15. **Which symmetry is found in a sea anemone?**
a) Biradial
b) Asymmetry
c) Spherical
d) Pentamerous
16. **A fixed animal generally possesses**
a) No symmetry
b) radial symmetry
c) Bilateral symmetry
d) all of the above
17. **Radial symmetry is often exhibited by animal having**
a) Ciliary mode of feeding
b) aquatic mode of living
c) Benthos / sedentary nature
d) one opening of alimentary canal
18. **Animals with radial symmetry in adult and bilateral symmetry in larva are**
a) Annelids
b) echinoderms
c) coelenterates
d) platyhelminthes
19. **All diploblastic animals are**
a) eucoelomates
b) enterocoelomates
c) radially symmetrical
d) bilaterally symmetrical
20. **All triploblastic animals are**
a) eucoelomates
b) schizoelomates
c) radially symmetrical
d) bilaterally symmetrical
21. **An animal without segmentation is**
a) Shipworm
b) tapeworm
c) earthworm
d) glowworm
22. **Metamerism is characteristic of**
a) Porifera
b) Mollusca
c) Annelida
d) Echinodermata

23. What is common among an earthworm, a cockroach and a centipede?
a) Haemocoel b) Metamerism
c) Sexual dimorphism d) Chitinous exoskeleton
24. A coelom (body cavity) derived from blastocoel is known as
a) schizocoel b) enterocoel c) haemocoel d) pseudocoel
25. The animals with pseudocoel are
a) Amia and leech b) Lepisma and liverfluke
c) Aurelia and dragonfly d) Wuchereria and hookworm
26. Development of mesoderm in the form of muscles in body wall, leaving alimentary canal non-muscular is the feature of
a) acoelomates b) pseudocoelomates
c) enterocoelomates d) schizocoelomates
27. An eucoleomate phylum is
a) Porifera b) Cnidaria c) Arthropoda d) Aschelminthes
28. M-cells (Mesoblast cells) play an important role in the development of which body cavity?
a) Schizocoelome b) Pseudocoelome c) Enterocoelome d) Coelenteron
29. Protostomes and deuterostomes differ in
a) Type of cleavage b) Origin of mouth and anus
c) Mode of coelom formation d) all of the above
30. The following animal phylum belongs to Deuterostomia
a) Echinodermata b) Mollusca c) Arthropoda d) Annelida
31. Identify the group in the following having all animals belonging to the same class
a) Dog fish, sliver fish, crayfish, and flatfish
b) Glowworm, silkworm, housefly, bedbug
c) Sea urchin, sea cucumber, sea fan, sea lion
d) Centipede, earthworm, caterpillar, ship worm
32. In which of the following groups, all animals are hermaphrodites?
a) Tapeworm, Toad, Starfish b) hydra, Leech, Tapeworm
c) Hydra, Ascaris, Pheretima d) Hydra, Homo sapiens, Leech
33. Gorilla, chimpanzee, monkey and man belong to the same
a) Family b) species c) genus d) order
34. Venus's girdle belongs to the phylum
a) Cnidaria b) Porifera c) Ctenophora d) Chordate
35. Schizocoelomates and enterocoelomates are
a) acoelomates b) invertebrates
c) True coelomates d) echinoderms only
36. Haversian systems are characteristic of the long bones of;
a. reptiles b. birds c. Mammals d. Amniotes
37. Deuterostome condition and indeterminate, radial cleavage are characteristics of
a) Chordates, arthropods and annelids
b) Arthropods and echinoderms
c) Chordates and echinoderms
d) Chordates and arthropods

38. **The plane that divides the body into right and left halves**
a) Sagittal b) Radial c) Transverse d) Frontal
39. **The weakest of all cartilages is:**
a. Hyaline b. Fibrous c. Calcified d. Elastic
40. **Irregular dense fibrous tissue is found in;**
a. perichondrium b. periosteum c. periodntal membrane d. a,b,&c

VASCULAR TISSUES

41. **If, RBCs are removed, the remaining part of a sample of blood is called**
A. serum B. Plasma C. lymph D. buffi coat
42. **If, all the formed elements are removed from a sample of blood the remaining part of it is to be referred to as**
A. serum B. plasma C. lymph D. puss
43. **A tissue with a matrix which is not secreted by its living components is**
A. blood B. cartilage C. bone D. Adipose
44. **The pH of blood under normal conditions in humans is**
A.7.8 B.7.4 C.6.7 D.6.4
45. **The percentage of fluid matrix and formed elements of blood is respectively:**
A.45&55 B.55&45 C.60&40 D.40&60
46. **The total volume of blood in a healthy man weighing 60kgs is**
A.4lts B.5to6lts C.8lts D.10lts
47. **The percentage of all types of dissolved solutes in plasma of blood is**
A.92 B.55 C.45 D.8
48. **The most abundant serum protein among the following is**
A. fibrinogen B. prothrombin C. globulin D. albumin
49. **The plasma protein which is mainly responsible for maintaining colloidal osmotic pressure of blood is**
A. globulin B. albumin C. fibrinogen D. prothrombin
50. **Assertion: A fall in the level of albumins in blood plasma causes edema.**
Reason: Albumins mainly maintain blood colloidal osmotic pressure and fall in the albumin level lowers osmotic pressure of blood.
Answer _____
51. **Which constituents of blood plasma act as “acid base buffers?”**
A. chlorides B. sulphates C.proteins D. lipids
52. **The blood cells in the earliest stages of embryogenesis are formed from**
A. liver B. spleen
C. red bone marrow D. yolk sac mesoderm
53. **Which one of the following is the primary site of haemopoiesis in the final stages of embryonic development and after birth?**
A. spleen B. liver
C. red bone marrow D. yolk sac mesoderm

54. The shortage of O₂ in the atmosphere at very high altitudes stimulates the secretion of which one of the following hormones by kidneys in the people living in those areas.
A. renin B. angiotensin C. erythropoitin D. aldosterone
55. An abnormal rise and fall in RBC count are respectively referred to as:
A. Polycythaemia and erythroclasia B. Erythropoiesis and erythroclasia
C. polycythemia and erythrocytopenia D. polycythaemias and anemia
56. The state of RBC in the course of its development in which the nucleus and other organelles are lost is
A. Reticulocyte B. Reticulate cell C. Proerythroblast D. Haemocytoblast
57. Identify the incorrect statements with reference to a haemoglobin molecule in the RBC of man under normal conditions
i. Each haemoglobin molecule contains four polysaccharide chains and four heme molecules.
ii. Each heme molecule contains one Fe²⁺
iii. Haemoglobin is a conjugated protein.
iv. Each haemoglobin molecule can carry one oxygen molecule
A. ii & iii B. i & IV C. i & iii D. ii & iv
58. The life span of RBC in humans is (days)
A. 100 B. 120 C. 90 D. 12
59. Study the following statements and choose the correct statements pertaining to WBCs
i. A slight increase in WBC count and fall in WBC count respectively are referred to as leukaemia and leucocytopenia.
ii. WBCs perform diapedesis to reach extra cellular areas.
iii. The total leukocyte count under normal conditions in a human being is 60,000 – 1, 00,000/Cmm.
iv. WBC exhibit leucocytosis during parasitic infections and allergy
A. i & iii B. ii & iii C. ii & iv D. iv only
60. The blood cells that supplement the function of mast cells by producing heparin and histamine whenever they are required.
A. Neutrophils B. monocytes C. Basophils D. acidophils
61. Which of the following are described as microscopic police men?
A. monocytes B. neutrophils C. eosinophils D. basophils
62. In female mammals which of the following WBCs have a drumstick body attached to their nucleus.
A. Cells in which the nucleus is divided in to 2 to 5 lobes.
B. Cells which play a role in allergic reactions.
C. Cells that play a role in immunological reactions.
D. Cells that differentiate into macrophages in connective tissues.
63. The largest, motile phagocytes are WBC with a
A. large spherical nucleus B. reniform nucleus
C. multi lobed nucleus D. irregularly lobed nucleus
64. The WBCs that perform 'reverse diapedesis and reach blood vessels are
A. monocytes B. neutrophils C. lymphocytes D. eosinophils

65. A clotting factor secreted by platelets of blood is:
A. thrombin B. thrombokinase C. thromboplastin D. fibrinogen
66. Platelets are formed by the fragmentation of which cells in red bone marrow
A. megakaryoblasts B. megakaryocytes C. thromboplasts D. thrombocytes
67. The formed elements of blood that play an important role in the process of clotting of blood are
A. RBCs B. granulocytes C. agranulocytes D. platelets
68. Lymph finally reaches blood through:
A. jugular veins B. subclavian veins
C. carotid veins D. hepatic veins
69. Which one of the following is considered as the most important function of lymph?
A. transport of oxygen to tissues B. transport of nutrients to tissues
C. to return interstitial fluid to blood D. to return CO₂ to lungs
70. Lymphoid tissue is found in:
A. tonsils B. thymus
C. lymph nodes D. tonsils, thymus & lymph nodes
71. Which of the following is a tissue?
A. liver B. pancreas C. gut D. lymph
72. Identify the main difference between blood and lymph.
A. Blood has RBCs while lymph has WBCs.
B. Blood has less nutrients while lymph has relatively more nutrients.
C. Blood has all formed elements while lymph has all except RBCs
D. Blood has less fibrinogen while lymph has more fibrinogen.
73. The most important centre for the production of lymph is:
A. liver B. spleen C. interstitial space D. kidney

MUSCULAR TISSUES

74. I. All muscular tissues are derived from mesoderm.
II. Muscles of iris and ciliary body are derived from ectoderm.
III. Excitability, conductivity and contractility are the essential properties of muscles.
IV. All striated muscles undergo fatigue. Choose the **incorrect** statements.
A. II & III B. II & IV C. I & IV D. I & III]
75. Muscle fibers are called
A. sarcocytes B. myocytes C. A & B D. sarcosomes
76. Study the statements pertaining to a skeletal muscle fibre and choose the correct statements.
I. The power houses of a sarcocyte are called sarcosomes
II. A skeletal muscle fibre has many myofibrils.
III. A myofibril has thick and thin filaments.
IV. The thick and thin filaments of a myofibril in a skeletal muscle fibre show irregular arrangement.
A. except IV B. only I & II C. only III & IV D. II & III
77. The outermost connective tissue sheath enclosing a group of fascicles is .
A. endomysium B. epimysium C. perimysium D. sarcolemma

78. A sheet like connective tissue layer formed by the extension of connective tissue beyond the muscle is called
A. tendon B. aponeurosis C. ligament D. syndesmosis
79. Study the following and identify the false statement.
A. A skeletal muscle fibre is a long cylindrical multinucleate cell.
B. Skeletal muscle contracts quickly and Undergoes fatigue slowly.
C. Satellite cells help in the regeneration of skeletal muscle fibre.
D. All striated muscles are voluntary muscles.
80. Assertion (A): Visceral muscles are smooth muscles.
Reason(R): The myofibrils of smooth muscle fibres do not show cross bands due to regular arrangement of Thin and thick myofilaments.
Answer _____
81. Which of the following are not smooth muscles?
A. muscles of ciliary body of an eye B. muscles of iris
C. Arrector pili muscles D. intrinsic muscles of human tongue.
82. Smooth muscle fibres
I. Are fusiform, uninucleated cells
II. Are involuntary in function
III. Do not perform slow and sustained contractions
IV. Do not show striations due to regular arrangement of actin and myosin filaments.
Choose the **incorrect** set of statements.
A. I & II B. III & IV C. II & III D. I & IV
83. Assertion: Cardiac muscle is highly resistant to fatigue.
Reason: In a cardiac muscle continuous aerobic respiration is facilitated by a relatively large number of sarcosomes, myoglobin molecules and copious supply of blood.
84. Assertion: Cardiac muscle acts as a functional syncytium.
Reason: The gap junctions facilitate the conduction of electrical impulses all along the cardiac muscle fibres so that a whole hearted contraction of the entire muscle as a single unit occurs.
85. The oxygen dissociation curve of oxyhaemoglobin is
A. linear B. sigmoid C. parabolic D. hyperbolic
86. The fine connective tissue layer enveloping an individual muscle fibre is:
A. epimysium B. perimysium C. endomysium D. sarcolemma
87. A muscle is relatively rich in:
A. glycogen B. proteins C. lipids D. vitamins
88. Contractile tissues have the following features:
I. They are mesodermal in origin. II. They contain stretch receptors.
III. They perform rhythmic contractions. IV. They do not undergo fatigue.
Which of the above are characteristics of sphincters?
A. I, II, III & IV B. only I, II & IV C. only I, III & IV D. I, II & III
89. The repeating unit of a skeletal myofibril is :
A. sarcomere B. myomere C. actomyosin D. motor unit

- 90. Myofibrils are made up of:**
A. actin and myosin
B. troponin and tropomyosin
C. both A & B
D. myosin only
- 91. Identify the set of proteins that are present in the thin filaments of a myofibril.**
A. actin, troponin & tropomyosin
B. trypsin & actin
C. troponin & myosin
D. myosin & tropomyosin
- 92. Skeletal muscles are attached to bones except in:**
A. pinna & nose
B. jaw & nose
C. tongue & oesophagus
D. pinna & skull
- 93. Smooth muscles are not found in:**
A. fallopian tube
B. blood vessel
C. wall of intestine
D. eyeball muscle
- 94. Smooth muscles occur in the wall of:**
A. an artery
B. vein
C. uterus
D. an artery, vein & uterus
- 95. Which one of the following is a feature of cardiac muscle?**
A. They are branched and enucleate.
B. They contract quickly and do not get fatigued quickly.
C. They contract slowly and do not get fatigued.
D. They contract quickly and soon get fatigued.
- 96. Cardiac muscles are:**
A. striated and voluntary
B. striated and involuntary
C. smooth and involuntary
D. smooth and voluntary
- 97. The muscles surrounding the pupil of the eye of a man are:**
A. striated and voluntary
B. striated and Involuntary
C. smooth and involuntary
D. smooth and voluntary
- 98. In the wall of stomach the layer of muscles nearest to peritoneum is**
A. circular
B. oblique
C. Longitudinal
D. Dorso ventral
- 99. Ciliary muscles are found in:**
A. diaphragm of man
B. vertebrate eye
C. uterus
D. trachea of man

NERVOUS TISSUE

- 100. The functional unit of nervous system is:**
A. axon
B. cyton
C. dendrite
D. neuron
- 101. Neurons**
A. divide by amitosis
B. divide by mitosis
C. divides by meiosis
D. do not divide
- 102. The longest cell in the human body is :**
A. myocyte
B. neuron
C. osteocyte
D. fibrocytes
- 103. Which one of the following is absent in a neuron:**
A. nucleus
B. centrosome
C. golgi complex
D. mitochondrion
- 104. The areas where the medullary sheath is absent in the nerve fibre are called**
A. schwann cells
B. nodes of Ranvier
C. Schwann node
D. Nissl bodies

- 105. The afferent and efferent processes of a neuron are respectively called:**
A. axon & cyton B. cyton & dendrite C. dendrite & axon D. axon & dendrite
- 106. A group of cell bodies in CNS and PNS are respectively called:**
A. nucleus and ganglion B. ganglion and nucleus
C. tract and ganglion D. nucleus and tract
- 107. Study the following and identify the incorrect statement:**
A. Dendrites and cyton contain Nissl bodies and neurofibrils
B. Dendrites conduct impulses towards the cyton whereas the axon conducts impulses away from the soma.
C. Nissl bodies are absent in an axon.
D. The axoplasm of an axon does not contain neurofibrils
- 108. Identify the wrong statement.**
A. Distally an axon branches into many fine filaments called telodendria.
B. The axon terminals end in terminal boutons
C. The synaptic knobs possess synaptic vesicles that store neurotransmitters.
D. Myelinated axons are found in the grey matter.
- 109. The axons in the CNS and PNS are called respectively :**
A. nerve and tract B. tract and nerve
C. synapse and nucleus D. tract and nucleus
- 110. The most abundant neurons in the human body are:**
A. bipolar B. unipolar C. multipolar D. pseudo unipolar
- 111. The soma of a sensory or pseudo unipolar neuron is located in:**
A. ventral root of a spinal nerve B. dorsal root ganglion of a spinal nerve
C. dorsal funiculus of a spinal cord D. ventral funiculus of a spinal cord
- 112. Identify the correct statements pertaining to pseudo unipolar neurons.**
A. They are afferent neurons. B. They are efferent neurons
C. They are mixed type D. Internuncial
- 113. The glial cells of peripheral nervous system are:**
A. astroglia B. oligodendroglia C. satellite cell D. Schwann cells
- 114. Motor and interneurons are:**
A. unipolar B. multipolar C. bipolar D. afferent
- 115. Multipolar neurons have:**
A. One axon and two or more dendrites
B. many axons and one afferent process
C. a single efferent process and only two afferent processes
D. many efferent processes.
- 116. Bipolar neurons are found in:**
A. sensory cells of the internal ear B. retina of eye
C. olfactory sensory epithelium D. all the above

117. Study and identify the set of true statements pertaining to myelinated axons.

- i. Internodes contain Schwann cells.
- ii. The outermost layer of Schwann cell contains only lipids.
- iii. In CNS a single oligodendrocytes can myelinate many axons.
- iv. The portions of a myelinated axon without myelin sheath are internodes.

A. I & ii B. i, ii & iii C. I & Iii D. iii & iv

118. Identify the set of mis-matches

Type of axon

I. Myelinated axons

II. Myelinated axons

III. Non-myelinated axons

IV. Non-myelinated axons

A. ii & iii

B. I & ii

occurrence

grey matter of CNS and ANS

white matter of CNS and most peripheral nerves

grey matter of CNS and ANS

white matter of CNS and most peripheral nerves

C.iii & iv

D. I & iv

119. Arrange the following in the correct sequence from the myelinated part of an axon to the nerve.

A. fascicle

C. axolemma

E. Neurilemma

G. myelin sheath

B. endoneurium

D. epineurium

F. perineurium

A.C-G-E-B-A-F-D

B. C-G-B-E-A-F-D

C.C-G-F-B-A-D

D. C.G-E-F-B-A-D

120. The cells that provide microenvironment suitable for neuronal activity are:

A. neuroglia

B. non-conducting cells of nervous tissue

C. cytons

D. A& B

121. Study and identify wrong statement from those given below.

A. Neuroglia are cells that continue to divide throughout life.

B. Astrocytes help in providing blood brain barrier.

C. Ependymal cells are non-ciliated cells that line the ventricles of brain and central canal of spinal cord.

D.Satellite cells and Schwann cells are Neuroglial cells of PNS.

122. Neuroglial cells derived from mesoderm are:

A. oligo- dendroglia

C. microglia

B. astrocytes

D. Ependymal cells

123. The cells that surround the cytons in ganglia are:

A. Schwann cells

B. Astrocytes

C.satellite cells

D. ependymal cells.

124. Identify the correct statement with regard to the node of Ranvier

A. It is covered by myelin sheath

B. Axolemma is discontinuous at nodes of Ranvier.

C. Myelin sheath is discontinuous at the nodes of Ranvier.

D. Both neurilemma and myelin sheath are discontinuous at nodes of Ranvier

125. Phagocytic cells present in brain are:

- A. astrocytes
- C. microglia

- B. ependymal cells.
- D. oligodendroglia

Question Bank Key for Paper on Animal Organization

EXERCISE – 3

1) a	2) a	3) a	4) d	5) a	6) c	7) c	8) a	9) c	10) b
11) d	12) c	13) b	14) b	15) a	16) b	17) c	18) b	19) c	20) d
21) a	22) c	23) b	24) d	25) d	26) b	27) c	28) a	29) d	30) a
31) b	32) b	33) d	34) c	35) c	36) c	37) c	38) a	39) a	40) d
41) C	42) B	43) A	44) B	45) B	46) B	47) D	48) D	49) B	50) A
51) C	52) D	53) C	54) C	55) C	56) A	57) B	58) B	59) C	60) C
61) A	62) A	63) B	64) C	65) C	66) B	67) D	68) B	69) C	70) D
71) D	72) A	73) C	74) C	75) C	76) B	77) D	78) B	79) C	80) D
81) D	82) B	83) A	84) A	85) B	86) C	87) B	88) D	89) A	90) C
91) A	92) C	93) D	94) D	95) C	96) B	97) C	98) C	99) B	100) D
101) D	102) B	103) B	104) B	105) C	106) A	107) D	108) D	109) B	110) C
111) B	112) A	113) C	114) B	115) A	116) D	117) C	118) D	119) A	120) A
121) C	122) C	123) C	124) C	125) C					