



Sample Paper- 05

Class 11th NEET (2024)

ZOOLOGY

ANSWER KEY

1. (3)
2. (1)
3. (2)
4. (2)
5. (4)
6. (1)
7. (1)
8. (1)
9. (1)
10. (3)
11. (4)
12. (1)
13. (2)
14. (3)
15. (2)
16. (4)
17. (1)
18. (2)
19. (3)
20. (3)
21. (3)
22. (3)
23. (4)
24. (2)
25. (4)

26. (1)
27. (1)
28. (1)
29. (3)
30. (2)
31. (1)
32. (3)
33. (4)
34. (3)
35. (2)
36. (1)
37. (4)
38. (4)
39. (3)
40. (3)
41. (4)
42. (1)
43. (4)
44. (4)
45. (2)
46. (2)
47. (3)
48. (3)
49. (1)
50. (2)



Hind and Solutions

1. (3)
Diploblastic and triploblastic are terms that describe the number of germinal layers during embryonic development.

2. (1)
Sycon -> Scypha
Spongilla -> Fresh water sponge
Euspongia -> Bath sponge

3. (2)
The characteristic cells of coelenterates are cnidoblasts present in epidermis only.

4. (2)
The main body parts common to all molluscs are the foot, visceral mass(hump) and mantle.

5. (4)
Cartilaginous fishes are viviparous while bony fishes are oviparous.

6. (1)

(1)	Tight junction	Promotes leaking of substances across a tissue
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7. (1)
Dense irregular connective tissue is present in skin.

8. (1)
Bidder's canal present in the kidney of male frog is involved in the passage of sperms only.

9. (1)
Sugar and amino acids are primary metabolites.

10. (3)
Biologists describe the protein structures at 4 levels.

11. (4)
All the given statements are correct.

12. (1)
A phosphoglyceride is always made up of a saturated or unsaturated fatty acid esterified to a glycerol molecule to which a phosphate group is also attached.

13. (2)
A- III, B-I, C-IV, D-II, E-V

14. (3)
A-IV; B-I; C-II; D-III

15. (2)
A - II, B - I, C - V, D - IV, E - III

16. (4)
Reptiles, birds and mammals animals respire through lungs.

17. (1)
(a), (b), (c), (d), (e)

18. (2)
A large proportion of oxygen is left unused in the human blood even after its uptake by body tissues. This O_2 acts as a reserve during muscular exercise.

19. (3)
A vein is different from the artery in having valves to control direction of flow.

20. (3)

21. (3)
In mammalian embryo, the pulmonary aorta communicates with carotico-systemic aorta by a narrow ductus arteriosus, in the adult this connection closes leaving ligamentum arteriosus.

22. (3)
Uric acid is an excretory product of cockroach, sparrow, terrestrial reptiles.

23. (4)
The ascending limb of Henle's loop extends as DCT is the correct statement.

24. (2)
Anti-Diuretic Hormone (ADH) helps in H_2O reabsorption, making the urine hypertonic.

25. (4)
None of the given statements are incorrect.

26. (1)
conceptual

27. (1)
WBC count increase during infection

28. (1)
Myasthenia gravis is an autoimmune disorder affecting neuromuscular junction leading to fatigue, weakening and paralysis of skeletal muscle.



29. (3)
For quick coordination, our neural system is organised through point to point connections.
30. (2)
In the resting state of the neural membrane, diffusion due to concentration gradients, if allowed would drive Na^+ into the cell because sodium-potassium pump works against the concentration gradient.
31. (1)
Both assertion and reason are true and reason is correct explanation of assertion.
32. (3)
Thyroid gland consists of two lobes.
33. (4)
Insulin, a peptide hormone like glucagon, has all the following effects except insulin reduces glycogenesis because insulin enhances glycogenesis.
34. (3)
conceptual
35. (2)
Skeletal muscles are closely associated with the skeletal components of the body. Their activities are under the voluntary control of the somatic nervous system
36. (1)
Cnidarians exist in 2 body forms polyp and medusa
37. (4)
All the given statements are true.
38. (4)
Enzyme works only at optimum pH and temperature whereas at above the optimum temperature it denatures the protein structure.
39. (3)
left ventricles has the thickest muscular wall and oxygenated blood is carried by the pulmonary vein into the left atrium
40. (3)
In human heart there is no mixing of oxygenated and deoxygenated blood because of valve.
41. (4)
High concentration of hydrogen favours oxyhaemoglobin dissociation.
42. (1)
In the presence of enzyme thrombin, inactive fibrinogen is converted into fibrin in the plasma. Plasma without clotting factor called as serum.
43. (4)
Coronary artery disease (CAD) is also known as atherosclerosis.
44. (4)
Conceptual
45. (2)
Human vertebral column is dorsally placed.
46. (2)
Phylum -Annelida
figure belongs to *Nereis*
47. (3)
At chemical synapse, the membranes of pre and post-synaptic neurons are not in very close proximity.
48. (3)
A-Adenohypophysis, B-Neurohypophysis,
C-Pars distalis, D-Pars intermedia
49. (1)
(a) – protein; (b) – Water; (c) – membrane- bound; (d) – second; (e) – Lipid; (f) – intracellular; (g) – nuclear; (h) – nucleus; (i) – genome
50. (2)
Thyrocalcitonin lowers the blood calcium level and parathormone raises the blood calcium level by removal of calcium from bone and reabsorption of calcium from nephrons.

