

Chapter Test – Biology Class IX

Duration – 3 Hours

Max Marks – 65 Marks

Chapters :

- 1) The fundamental unit of life
 - 2) Tissues
 - 3) Improvement in food resources
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Section – A (01 marks each. (Answer ANY 15 questions) 1 x 15 =15 Marks

1. Name to organelles in a plant cell that contain their own genetic material.
2. Which type of cell division is required for: a) Growth and repair of body
a) Formation of gametes.
3. Name the tissue which forms the lining of blood vessels.
4. State one problem associated with composite fish culture.
5. Lysosomes are known as the suicide bags of the cell. Give reason.
6. Mentioned to ways which crop variety can be improved.
7. Which tissue makes up the husk of coconut?
8. Name two structure found in animal cells but not in plant cells
9. Which organelle is involved in the formation of lysosomes?
10. Water hyacinth floats on water surface. Explain.
11. Which tissue forms a barrier to keep different body systems separate?
12. Name the water conducting tissue generally present in gymnosperms.
13. Which tissues in plants provide them flexibility?
14. Name the tissue responsible for movement in our body.
15. Which structure protects the plant body against the invasion of parasites?
16. What are genetically modified crops?
17. What are weeds give examples
18. Which organelle is associated with ribosomes formation?
19. Plasma membrane is made up of which two components?
20. What are fodder crops? Give examples.

Section – B (02 marks each) (Answer ANY 10 questions) 2 x 10 = 20 Marks

21. What are the consequences of the following conditions? Give Reason.
a) A cell having low water concentration than the surrounding medium.
b) A cell having equal water concentration to its surrounding medium.
22. Describe the structure of mitochondria with a neat labelled diagram.
23. What is cell sap? Give its composition.
24. State the different functions of endoplasmic reticulum.
25. What is green manure?
26. List the two types of food requirements of dairy animals.
27. Why is the epidermis present as thick waxy coating of cutin in desert plants?
28. What is cytosol and cytoskeleton?
29. What precautions would you take while preparing a stained temp. mount of onion peel cell
30. What would happen if the plasma membrane ruptures or break down?
31. What are the constituents of phloem?
32. What is lignin and cutin?
33. Name the different components of xylem.
34. What are involuntary muscles? Where are they found?
35. Who proposed cell theory? What it states? What modifications Virchow made in it?

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Section – C (03 marks each) (Answer ANY 05 questions) 3 x 5 = 15 Marks

36. What is mixed cropping? Give one example. How it helps the farmers?
37. List any three desirable characters of bee varieties suitable for honey production.
38. Draw a neat and well labeled diagram of neuron. What part of our body is composed of nervous tissue?
39. Give any three distinguishing characters of collenchyma and parenchyma.
40. Describe any three functions of the Golgi apparatus.
41. Name the following:
 - a) Epithelial tissue containing thin, flat, irregular cells
 - b) Epithelial tissue found in the ducts of salivary glands
 - c) Epithelial tissue present in glands such as the thyroid and pituitary glands.
42. Give three features of the cardiac muscles.
43. What are the functions of areolar tissue?
44. What would happen to the life of a cell if there were no Golgi apparatus?
45. Why xylem and phloem are called complex tissues? How are they different from one other?

Section – D (05 marks each) (Answer ANY 03 questions) 5 x 3 = 15 Marks

46. What is meant by osmosis? What happens to a cell when it is placed in hypotonic and hypertonic solutions respectively? State two points of differences between osmosis and diffusion.
47. Explain any three functions of epidermis. What changes takes place in the epidermis as the plant grows older.
48. (a) List six factors for which the variety improvement of crops is aimed at?
(b) Explain two advantages of inter cropping.
49. (a) Explain the two ways of incorporating desirable character into crop varieties.
(b) Mention any two such desirable characters to be seen in a variety for selection.
50. Differentiate between:
(a) Tendons and Ligaments (b) Apical meristem and lateral meristem.
51. Describe the types of connective tissue along with their functions.
52. What is a permanent tissue? Classify permanent tissue and describe them.
53. Write short note on epithelial tissue and their functions.