

SHARDAYATAN SCIENCE SCHOOL

STANDARD- 12 BIOLOGY

2MARKS QUESTION

1. Describe the structure of chloroplasts.
2. What is light harvesting complex?
3. Write short note on photolysis of water
Or splitting of water molecules.
4. Describe dark phase of photosynthesis.
Or describe Calvin cycle.
5. Describe kranz anatomy.
6. Differentiate between C₃ and C₄ cycle.
7. Write the difference between cyclic and non cyclic photophosphorylation.
8. Explain chemiosmotic hypothesis.
9. Name the factors affecting cyclic and non cyclic photophosphorylation.
10. Write the various steps of photorespiration.
11. Describe cyclic photophosphorylation.
12. Write a note on non cyclic photophosphorylation.
13. Explain why light reaction is pre requisite for biosynthetic phase?
14. Bile juice does not contain any enzyme still they are helpful in digestion how?
15. Write short note on digestion in stomach.
16. Explain the function of pancreatic juice.
17. Sketch the labeled histological structure of an alimentary canal.
18. Explain the digestion of food in buccal cavity.
19. Write short note on salivary glands.
20. What is absorption? How does it occur in human beings?
21. Write short note on lipid digestion.
22. What is calorie value? How it is calculated?
23. Why are villi present in intestine and not in stomach?
24. Describes structure and types of teeth in human.
25. Write the various components of food and how they are absorbed by body?
26. Write short note on protein digestion.
27. Describe exchange of gases in pulmonary surfaces.
28. Describe transport of oxygen in the blood.
29. Write short note on chloride shift and back shift.
30. How carbon di oxide is released at the respiratory surface?

31. Write short note on: bronchitis.
32. Write the role of diaphragm and inter costal muscles in the process of breathing.
33. Explain mechanism of breathing.
34. What do you mean by bronchial tree? Explain with help of diagram.
35. How is CO₂ transported in the form of chemical compound in erythrocytes?
36. Describe: regulation of respiration.
37. Write the difference between left and right lung.
38. Describe inspiratory and expiratory reserve volume.
39. Write short note on emphysema.
40. Explain with examples the difference between the movement and locomotion.
41. Explain the sliding filament theory of muscle contraction.
42. Describe the ultra structure of muscles.
43. What is the role of Ca⁺² and ATP in the muscle contraction

Or

How calcium does affect the process of muscle contraction?

44. Explain the bone which protects the heart and lung?
45. Write short note on vertebral column and back bones.
46. Describe axial skeleton and in short.
47. What is appendicular skeleton? Describe bones of limbs.
48. Write short note on pectoral girdle.
49. What are joints? Describe different types of joints.
50. What is pelvic girdle?
51. What causes muscle fatigue? How is it removed?
52. Why the bones of child are more flexible and less brittle than those of an adult?
53. Differentiate the exocrine and endocrine glands.
54. Write the mechanism of steroid hormone action.
55. Write the mechanism of peptide hormone action.
56. What is the role of oxytocin hormone at the time of child birth?
57. Explain the gland which having both the exocrine and endocrine glands.
58. What is the role of melatonin?
59. Which hormone is known as antidiuretic hormone? Explain the role of ADH.
60. State the difference between cretinism and myxoedema.
61. Give an account on adrenal glands.
62. What is ANF and write its function?
63. Write a short note on thymus glands.
64. What do you mean by growth rate?
65. Explain arithmetic growth curve.

66. What are the phases of growth?
67. Explain the factor which affects the growth of plants?
68. How can you measure the growth of plants?
69. Write the names of growth promoters and inhibitors.
70. Write the effects of abscisic acid on plants?
71. What are the causes of seed dormancy? And how it can be removed?
72. What is seed dormancy? Explain its types?
73. What is hypogeal seed germination?
74. What is abscission?
75. What is senescence?
76. What are plant movements? Also describe the types of movements.
77. What is amniocentesis?
78. What does GIFT represents?
79. Mention any four reasons for rapid rise of population in our country.
80. What are MTPs? Under what conditions MTPs are legally promoted?
81. Write a short note on diagnosis of STDs.
82. Differentiate the vasectomy and tubectomy.
83. Describe hormonal method for family planning.
84. Briefly explain the two natural barriers for birth control.
85. How does copper-T work as contraceptives?
86. Mention the points for prevention of STDs.
87. Explain In vitro fertilization.
88. Write a short note on genetically modified organisms.
89. Describe Bt cotton.
90. Write any four properties of GM plants.
91. Explain the structure of human insulin.
92. Write the two ways of implementation of gene therapy treatment.
93. Write and explain the gene therapy types.
94. Describe the significance of transgenic animals.
95. Describe biopatent.
96. Describe biopiracy.
97. Explain the ethical issues related to biotechnology.
98. How multinational companies exploit the developing countries?
99. What are biosafety issues?
100. How the biotechnology become helpful for health?