

MODEL QUESTION PAPER FOR **SUMMATIVE ASSESSMENT**

SUBJECT: BIOLOGY (36)

Time: 3 Hours

Max Marks: 70

GENERAL INSTRUCTIONS

- i) This question paper consists of five parts A.B.C.D and E.
- ii) All the Parts are Compulsory.
- iii) Draw diagrams whenever necessary. Unlabelled diagrams or illustrations do not attract any marks

PART-A

Answer any NINE of the following questions in One Word or One Sentence each.:-

9x1=9

1. What is a taxon ?
2. Bacteria are included under kingdom monera, why ?
3. What are zoological parks ?
4. Name the vegetative modified shoot of angiosperms that bears sex organs.
5. Name the modification of leaf for climbing.
6. Which connective tissue helps in the attachment of muscles to bone ?
7. Name the main component of middle lamella.
8. Name the phenomenon associated with the swelling of dry seeds.
9. Which plant hormone promotes bolting in cabbages ?
10. Name the hormone secreted by pars intermedia.
11. Which cell of the gastric gland secretes hydrochloric acid ?

PART-B

Answer any FIVE of the following questions in 3-5 sentences each, wherever applicable:

5x2=10

12. Mention any four classes of kingdom mycota.
13. What is diatomaceous earth ? Mention one of its use.
14. Name the family to which the following plants belong (a) gloriosa (b) Ashwagandha.
15. Write any two differences between prokaryotic cell and eukaryotic cell.
16. What is water potential ? Mention its components.
17. What is ultra filtration ? Which part of the nephron is associated with this

- process.
18. Name the gland that secretes melatonin ? What is its role ?

PART-C

- Answer any FOUR of the following Questions in 100-150 words each. 4x4=16**
19. With schematic representation explain the haplo-diplontic life cycle.
20. Describe the effect of temperature and substrate concentration on enzyme action.
21. Mention the role of any four micronutrients in plants.
22. Explain cyclic photophosphoryzation with a schematic representation.
23. Explain the components of blood.
- OR
- List the functions of blood.
24. Explain the mechanism of breathing.

PART-D

- Answer any FOUR of the following questions on 200-250 words each:- 4x5=20**
25. List the salient features of phylum Arthropoda.
26. Draw a neat labeled diagram of T.S. of young dicot stem (a portion enlarged)
27. Enumerate the chromosomal events during prophase-I of meiosis.
28. Describe the role of adrenal and thymus glands in regulating the physiological functioning of the body.
29. Schematically represent Kreb's cycle.
30. (a) What is vernalisation ? How is the process of vernalisation advantageous to plants.
- (b) What is growth rate? write the mathematical expression of arithmetic growth rates.

PART-E

- Answer any THREE of the following questions in 200-250 words each. 3x5=15**
31. Explain mass- flow hypothesis on the translocation of solutes in plants.
32. Draw a neat labeled diagram of sagittal section of human brain.
33. With a labeled diagram describe the structure of nucleus.
34. Explain the circulatory system of cockroach, with a labeled diagram.
- OR
- Describe respiration in frog
35. (a) Describe the different types of movements exhibited by cells of the human body.
- (b) Write any two difference between skeletal muscles and visceral Muscles.
