



SRI BHAGAWAN MAHAVEER JAIN COLLEGE

Vishweshwarapuram, Bangalore.

Mock Exam 2018

Course: I PUC

Subject: Biology

Max. Marks: 70

Duration: 3:00

General instructions

- The question paper consists of four parts A,B,C and D
- All parts are compulsory
- Draw diagrams wherever necessary. Unlabelled diagrams do not attract any marks

PART A

I Answer the following question in one word or one sentence each:

10 × 1=10

1. Name the first stable compound of C_u cycle.
2. What is Karyokinesis?
3. What are viroids?
4. What is an actinomorphic flower?
5. Give an example for free living nitrogen fixing bacteria.
6. Name the polysaccharide form of the exoskeleton of Arthropoda.
7. What are Gemmae?
8. Mention the function of thrombokinase?
9. What is Synapse?
10. Name the gaseous plant growth regulator.

Part B

II Answer any five of the following questions in 3 to 5 sentences each where ever applicable 5 x2=10

- 11 Name the enzymes present in root nodules of leguminous plants.
12. Differentiate amylopsin from steapsin?
13. Write the Significances of Mitosis.
14. Name the classes of Kingdom Fungi.
15. Define Binomial nomenclature. Give an example.
16. What are macronutrients? Mention any two of them.
17. Give the taxonomic classification of house fly.
18. What are long day and short day plants?

PART C

III Answer any five of the following questions in 100 - 150 words each

5×3=15

19. Write schematic representation of Calvin cycle.
20. Explain the process of ultrafiltration in the urine formation.
21. Draw a neat labelled diagram of Chloroplast.
22. What are joints? Describe the types,
23. Mention any one role of auxine and Gibberellin Ethylene in plants.
24. Name the three layers of meninges.
25. Differentiate polyp from medusa of phylum. Coelenterata
26. Explain the types of ovary based on position of ovary.

Part D

Section 1

IV Answer any four of the following questions in 200 to 250 words each wherever applicable

4×5=20

27. What is aestivation? Explain any four types.
28. Draw a neat labelled diagram of a structure of a nephron.
29. Write the salient features of phylum: Annelida.
30. List out the differences between mitosis and meiosis.
31. Explain Mass flow hypothesis with diagrammatic representation.

32. Assign the following animals to their respective phylum.

- (i) Comb jellies, (ii) Pearl Oyster, (iii) Portuguese man of war, (iv) Round-Worm,
(v) Star-Fish.

Section II

V Answer any three of the following questions in 200 to 250 each wherever applicable 3 ×5=15

33. Describe the mechanism of carbon dioxide transport.
34. Explain Transpiration-pull theory.
35. Give the schematic representation of Kreb's cycle.
36. Mention any five hormones secreted by the adenohipophysis. Mention one function of each.
37. Enumerate the salient features of Gymnosperms.
