

**QP Code: 106008**

Reg.No.: .....

First B.Pharm (Ayurveda) Degree Supplementary Examinations, April 2016

**PHARMACEUTICAL BIOLOGY**

**Time: 3 Hours**

**Max Marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

**(2x10=20)**

1. Define root. Explain the regions of the root system with the help of neat labeled diagram. Add a note on modified roots.
2. Explain the life cycle of malarial parasite with the help of neat labeled diagram.

**Short Notes**

**(10x5=50)**

3. Aerial and sub aerial modifications of stem with examples.
4. Venation and its types with examples.
5. Salient features of apocynaceae.
6. Germination and its types.
7. Draw the structure of plant cell and mention about important inclusions.
8. Male and female ascaris as parasitic nematodes with the help of a neat labeled diagram.
9. Phylum annelida.
10. Mention the medicinal importance of the animal musk deer.
11. Reproduction in sponges.
12. Entamoeba histolytica with the help of a neat labeled diagram.

**Answer Briefly**

**(10x3=30)**

13. Position of floral leaves on the thalamus.
14. Fleshy fruits.
15. Xylem, a complex tissue.
16. Stomata.
17. Cruciferae.
18. Cuttle fish.
19. Animal secretions.
20. Earthworm.
21. Corals.
22. Invertebrates.

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