

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2123)

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B. Pharmacy 1st Semester Examination

Remedial Biology (O.S.)

HBP-105

Time : 3 Hours

Max. Marks : 80

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt total five questions. Attempt one question from each part. Part E is compulsory for all.

PART - A

1. (a) Explain Biology and write its main branches. How biological study could be important for human? (6)
- (b) What is herbarium? How it can be preserved? Give its importance. (6)
- (c) Biological nomenclature and its importance, explain. (4)
2. (a) Name the different methods of plant classification. Explain only one which is considered as modern and scientific. (10)
- (b) What are the basic units of classification? (3)
- (c) List the different important herbaria of India. (3)

PART - B

3. (a) Differentiate the plant cell with animal cell in all ways. (8)
- (b) What is meristematic tissue? Write its different types and explain its importance. (8)

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4. (a) Name the non-living inclusion of a typical cell. (4)
(b) Explain simple permanent tissue in detail. (8)
(c) Write the significance of meiosis and mitosis. (4)

PART - C

5. (a) Make a bold, neat and labelled internal structure of a typical primary dicot root. (6)
(b) Describe phyllode and phylloclade with example. (5)
(c) Explain following. Monopodial axis, stipule, Non-porous wood, False fruit, and Plume. (5)
6. (a) Draw and explain a vascular bundle of dicote stem. (5)
(b) What is inflorescence? Write its different types and explain spike type inflorescence with example. (6)
(c) Explain following: Root cap, Axillary bud, Lamina, Bark, Pome. (5)

PART - D

7. (a) List the different species of plasmodium known for causing different types of malaria fever in man. (5)
(b) Draw electron micrograph of Trypanosoma. (5)
(c) Discuss the effects of tape worm infection on host and also suggest its control measures. (6)
8. (a) Draw cell structure of Entamoeba. (4)
(b) Give diagrammatic account of erythrocytic schizogony phase of plasmodium and also give the reason of malaria fever. (8)
(c) How ascariis infection is caused and write its effects. (4)

PART - E (Compulsory for all)

9. (i) Who has given binomial nomenclature?
- (ii) Name of mulathi is _____.
- (iii) Which tissue is responsible for secondary growth of plant?
- (iv) Why xylem is called as complex tissue?
- (v) Why apple is called as false fruit?
- (vi) Which disease is caused by Trypanosoma?
- (vii) Unorganised nucleus and chromatin material without histone proteins present in a _____ cell.
- (viii) Alternating host of Taenia is _____.
- (ix) Cremocarp type fruit is found in _____.
- (x) Leaves always with parallel venation present in _____.
- (xi) Presence of vessels is character of angiospermic wood.
True/False
- (xii) Monocots have one cotyledon in their seed. True/False
- (xiii) Occurrence of crossing over takes place in mitosis.
True/False.
- (xiv) Cork is a dead & protective tissue of tree. True/False
- (xv) All mosquitoes are responsible for plasmodial infection in man. True/False.
- (xvi) Presence of multicellular hairs is a character of stem.
True/False.
(16×1=16)