

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2124)

1682

B. Pharmacy 1st Semester Examination

Remedial Biology (NS)

BP-117

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) What is herbarium? List the some important Indian herbaria and discuss its scientific importance. (8)
- (b) Discuss the importance of plant nomenclature and its international code. (8)
2. (a) How phylogenetic system of plant classification can be considered as more improved system for plant classification? (8)
- (b) Explain the following: Holotype, Palynology, Chemotaxonomy, Neotype. (8)

PART - B

3. (a) Discuss the similarities of prokaryotic cell with Eukaryotic. (6)
- (b) Discuss the meristematic tissue and its types and importance. (10)

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4. (a) Give the detail of mitosis and write its significance. (10)
 (b) Explain the structure and importance of nucleus of a cell. (6)

PART - C

5. (a) What is a tap root? Discuss its modifications with suitable example. (8)
 (b) Make a bold, neat & labelled diagram of typical dicot stem internal structure. (6)
 (c) Explain placentation and only name its types. (2)
6. (a) What do you mean by Inflorescence? Explain unibel and verticillaster inflorescence with suitable examples. (8)
 (b) Comment whether maize grain is fruit or seed. (2)
 (c) Explain the following: Annual rings, Phellogon, heart mood, Actinomorph, Anther, phyllotaxy. (6)

PART - D

7. (a) Discuss the phase of life cycle of *P. vivax* in stomach of female Anopheles. (8)
 (b) What is measly pork? (2)
 (c) Give the pathogenicity and control measure of *Ancylostoma*. (6)
8. (a) Discuss the formation of cysticercosis larva of *Taenia* and also give brief account of infective stage of *Taenia*. (5)
 (b) Discuss the pathogenicity of *Trypanosoma*. (5)
 (c) What is parasitism? Give an account of parasitic adaptation of *Ascaris*. (6)

PART - E (Compulsory for all)

9. (i) Who is the father of Indian botany?
 (ii) Who has explained classification of plants in natural way under the title of their book "Genera Plantarum"?
 (iii) At which stage of cell cycle DNA synthesis occurs?
 (iv) Which type of roots are responsible for nitrogen fixation?
 (v) Who is the alternate host of *Taenia*?
 (vi) Phylloclade or cladophylls is modified stem found in....
 (vii) A hydrophyte named as *Salvinia* out of three leaves on each node one is modified into.....
 (viii) Botanically mango fruit is called as.....
 (ix) *Entamoeba* is an endoparasite, causes in human beings.
 (x) Sleeping sickness is caused by.....
 (xi) J.B. Farne and Moore (1905) introduced the term meiosis for reductional cell division. True or False.
 (xii) Redical always give rise to taproot system. True/False.
 (xiii) *Ocimum sanctum* is the scientific name of jeera. True/False.
 (xiv) Phloem is simple permanent tissue. True/False.
 (xv) When many carpels in a flower are free condition is known as apocarpous. True/False.
 (xvi) Plant cell wall is nonliving. True/False. (16×1=16)