

1672

B. Pharmacy 1st Semester Examination

Remedial Biology (OS)

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 five questions in all, selecting one question from each sections A, B, C and D. Section E is compulsory for all. Each question carry equal marks.

SECTION - A

1. (a) Give a brief account of international code of botanical nomenclature (ICBN). (8)
- (b) State the main features of classification of plants proposed by Bentham and Hooker. (8)
2. Explain in short of the following:
 - (i) Importance of Taxonomy.
 - (ii) Binomial system.
 - (iii) Chemotaxonomy.
 - (iv) Artificial system of plant classification. (4×4=16)

SECTION - B

3. (a) How prokaryotic cell differ from eukaryotic cell? (6)
- (b) What is cell cycle? Give diagrammatic explanation of different stages of mitotic cell division. (10)

[P.T.O.]

4. (a) Explain simple permanent tissue. Write its importance. (6)
- (b) Explain meristematic tissue and its types. Why it is important for plant? (10)

SECTION - C

5. (a) What is a tap root system? Explain its modifications with suitable examples. (10)
- (b) Explain by drawing the different parts of a typical gynoecium. (6)
6. Explain the following:
- (i) Inflorescence and its major types.
- (ii) Placentation and its types.
- (iii) True and false fruit with example.
- (iv) Phyllotaxy and its types. (4×4=16)

SECTION - D

7. (a) Draw a labeled diagram of *Trypanosoma*. (8)
- (b) Give the pathogenecity and control measure of *Ancylostoma*. (6)
8. Explain the following:
- (i) What is measly pork?
- (ii) Amoeba is immortal! Justify.
- (iii) How infection caused by *Taenia*?
- (iv) Explain the parasitic adaptation of *Ascaris*. (4×4=16)

SECTION - E

9. Write suitable short answer on the following:
- (i) Chloroplast.
- (ii) Carolus Linnaeus.
- (iii) Sleeping sickness.
- (iv) Root nodule.
- (v) Anaphase stage of mitosis.
- (vi) Variation.
- (vii) Annual rings.
- (viii) Pollination. (2×8=16)