

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2125)

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B. Pharmacy 1st Semester Examination
Remedial Biology
BP-117

Time : 3 Hours

Max. Marks : 70

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 :** (a) Attempt any two questions from section A, each question carries 10 marks. Attempt any 8 questions from Section B, each question carries (5) marks and attempt all questions from Section C. Each question is of 2 Marks.
- (b) Draw well labeled diagrams wherever required.
- (c) Section 'C' is compulsory.

SECTION - A

1. Draw and describe a typical plant cell. Why Mitochondria are called as "Power Houses" of the cell? (10)
2. Describe the Prophase - I of Meiosis - I with the help of well labeled diagrams. Why meiosis is called as reductional division? Give significance of meiosis. (10)
3. What are complex permanent tissues? Explain their structure & function. (10)

SECTION - B

4. Explain the scope of pharmaceutical sciences. (5)
5. Enlist the scope of biology in Modern era. Why the term life sciences is preferred over biology. (5)

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6. How plant collection and preparation of herbarium is done? (5)
7. What do you know about some important Indian Herbaria? (5)
8. Draw different parts of roots, describe their structure & function. (5)
9. Describe with well labeled diagrams the parts of an angiospermic plant. (5)
10. Give characteristics of stems. What are its various modifications? (5)
11. How naming of plants is done? What are the rules for it? (5)
12. Why is classification needed? Give the characteristics on which these systems are based. (5)
13. Explain binomial nomenclature. Give Hierarchy of classification. (5)

SECTION - C
(Compulsory Section)

14. Give characteristic features of Taenia, Give its life cycle. (2)
15. Name the casual organisms of diseases, Sleeping Sickness, Malaria, amoebic dysentery, Intestinal diseases. (2)
16. What are dictyosomes? What are their functions? (2)
17. Write a note on non-living inclusions of Cell. (2)
18. Differentiate between Prokaryotes & Eukaryotes. (2)