

16365(D)

10 DEC 2016

**B. Pharmacy 1st Semester Examination**

**Remedial Biology (NS)**

**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 :** (i) 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.
- (ii) Draw well labelled diagrams wherever required.
- (iii) Section C is compulsory.

**SECTION - A**

1. Draw electron microscopic structure of Unit membrane and give its importance, describe physical and chemical properties of protoplasm. What are the major non living inclusions of the cell? (10)
2. What are the differences between Mitosis & Meiosis? Describe the changes occurring in the nucleus during prophase of Mitosis. Explain chiasma and its formation. (10)
3. Describe the types of permanent tissues. Give a brief account of their roles. Which cells are responsible for increase in length of the plant? (10)

**SECTION - B**

4. Describe the importance of biology in relation to human welfare. (5)

5. Who gave the cell theory? Explain it in detail. (5)
6. What is herbarium? How pressing & drying of plants is done? (5)
7. What is the role of herbaria in modern taxonomic research? How will you protect herbarium sheets against moulds & insects? (5)
8. What are the two major types of roots? How do they differ from one another? (5)
9. Describe the structure & functions of various parts of the flower. (5)
10. What is venation? Differentiate between simple and compound leaf. (5)
11. What is systematic Botany? What is its scope? (5)
12. Give full form of ICBN. What are the rules for binomial nomenclature? (5)
13. What are parasites? Give life cycle of Plasmodium. (5)

**SECTION - C (Compulsory Section)**

14. What are round worms? What is their mode of nutrition? (2)
15. Give systematic position of *Trypanosoma*, which disease does it cause. And name its vector. (2)
16. Give importance of pharmaceutical sciences and its relationship with biology. (2)
17. Which organelle is called as suicidal bags of the cell and why? (2)
18. Name the reserve food material of plants & animals. Where is it stored? (2)