

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
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**B. Pharmacy (Ayurveda) 2nd Semester Examination**

**Pharmaceutical Biology (CBS)**

**BPA-201**

**Time : 3 Hours**

**Max. Marks : 60**

*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. At least one question from each unit. Question no. 9 is compulsory for all. Each question part carry equal marks.

**UNIT - I**

1. (a) Explain the terms cellular and acellular and draw the structure of a typical plant cell.
- (b) Name the different type of plant tissues and explain in detail phloem tissue. (6+6=12)
2. (a) Explain the Structure of Nucleus of a typical plant cell in detail.
- (b) What is a tissue? Give the detail of xylem tissue and write its importance. (6+6=12)

**UNIT - II**

3. (a) What are root systems? Discuss the modification tap root system.

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- (b) What is a shoot? Discuss the modification of underground stems. (6+6=12)
4. (a) Discuss the different parts of a typical flower. Explain the inflorescence found in wheat & coriander.
- (b) What are the main functions of a leaf? Define fruit and seed botanically. Explain legume and regma types of fruits with example. (6+6=12)

**UNIT - III**

5. (a) Discuss the importance of classification of flowering plants.
- (b) Explain the medicinal importance of umbelliferae and liliaceae. (6+6=12)
6. (a) Give the detail of system of classification of plants you have studied.
- (b) Why rutaceae is considered as primitive than solanaceae? Write economic importance of Apocynaceae. (6+6=12)

**UNIT - IV**

7. (a) What is drug? List its different types. Explain in detail in organised drug.
- (b) Discuss the cultivation and collection of any drug plant which commonly found in HP. (6+6=12)
8. (a) Define the crude drug. Name any three plant whose parts are used as crude drug and also write their purpose of use.
- (b) Discuss the cultivation collection storage and use of turmeric. (6+6=12)

[P.T.O.]

**UNIT - V**  
**(Compulsory Question)**

9. (i) Presence of cell wall is characteristics of.....
- (ii) Chloroplast of a plant cell is responsible for.....
- (iii) Companion cells are found in xylem tissue. True/False
- (iv) Term perianth used, when there is no distinction of calyx and corolla in a flower. True/False.
- (v) Define True fruit.
- (vi) Give the scientific name of Ashwaganda.
- (vii) Name two medicinal plants of rutaceae.
- (viii) Which organ of Cell called power house of a cell?
- (ix) What is bark?
- (x) Name the plant in which fleshy adventitious storage roots found.
- (xi) In which flower polyadelphous condition found?
- (xii) Presence of root nodules is characteristics of which family? (1×12=12)