

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2064)

14798

**B. Pharmacy (Ayurveda) 2nd Semester Examination**

**Pharmaceutical Biology (N.S.)**

**BPA-221**

**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 total six question.

(ii) Question no. 1 is compulsory for all.

1. (a) Plant cell wall is non-living. YES or NO
- (b) \_\_\_\_\_ concerned with the conduction of water and minerals.
- (c) Who is known as father of Taxonomy?
- (d) Name the family with trimerous flower.
- (e) What type of fruit found in Rutaceae?
- (f) Name any two medicinally important plants of Zingiberaceae.
- (g) Rauvolfia serpentina plant belongs to \_\_\_\_\_ family.
- (h) Write the scientific name and family of brahmi booti.
- (i) Write the name, family and drug obtained from khair.

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[P.T.O.]

- (j) In India earliest reference to medicinal plants appear in \_\_\_\_\_.  
(10×2=20)
2. (a) What is a complex tissue? Explain in detail and write its importance.
- (b) Draw the vertical section of a typical flower to show its parts.  
(5×2=10)
3. (a) Explain the principles of classification and write their importance in plant taxonomy.
- (b) Write the diagnostic characters of Convolvaceae.  
(5×2=10)
4. (a) Discuss the points of herbarium preparation and preservation.
- (b) Discuss the economic importance of Umbelliferae family.  
(5×2=10)
5. (a) Explain the Apocynaceae family in botanical language by taking an example of its typical plant.
- (b) Draw floral diagram of *Withania somnifera*. (5×2=10)
6. (a) Explain the terms Pharmacognosy, Pharmacology and Ethnobotany.
- (b) Describe the cyathium.
- (c) Write the drug use of Liliaceae. (4+3+3=10)
7. (a) Write short note on historical background of medicinal plants.
- (b) Name four plants whose Roots are being used as drugs. Also write their families. (5×2=10)

8. (a) Discuss the methods of systematic studies of crude.
- (b) Write the botanical name, family and part used as drug of the following:-
- Turmeric , Aloe, Bael , Ambla (5×2=10)
9. Write short note on:
- (a) Nucleus
- (b) Herbarium
- (c) Taxonomy
- (d) Cultivation of crude drugs. (10)