

FACULTY OF PHARMACY

B. Pharmacy I-Year (Main) Examination, June 2015

Subject : Biology

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

- 1 (a) (i) Give brief classification of plant kingdom. (7)
(ii) Describe mitosis with the help of a neat and well labeled diagram. (7)
OR
(b) (i) Illustrate various types of root modifications with suitable examples. (7)
(ii) Describe plant cell wall and draw a neat and well labeled diagram. (7)
- 2 (a) (i) Give the classification of umbelliferae and list out the economic importance of its members. (7)
(ii) Give the botanical names of any three medicinal plants from Apocynaceae and Solanaceae. (7)
OR
(b) (i) Describe the vegetative and floral characteristics of Scrophulariaceae. (7)
(ii) List out any six medicinally important plants and their products from Leguminosae. (7)
- 3 (a) (i) Describe transpiration mechanism and its significance in plants. (7)
(ii) Write an essay on DNA replication. (7)
OR
(b) (i) Define mutation. Comment on its advantages and disadvantages. (7)
(ii) What is hybridization? Explain. (7)
- 4 (a) (i) List out differences and similarities between animal and plant cell. (7)
(ii) Describe the epithelial tissue and its derivatives in animal kingdom. (7)
OR
(b) (i) What are the hormones secreted by the pituitary gland? Give brief note on their clinical significance. (7)
(ii) Give the details of histology of liver. (7)
- 5 (a) (i) Describe the external morphology to tape worm. (7)
(ii) Mention about the symptoms, pathogenesis and clinical management of Malaria. (7)
OR
(b) (i) Give the details of life cycle of *Ascaris* sps. (7)
(ii) Describe the life history of housefly. (7)
