

FACULTY OF PHARMACY**B. Pharmacy I Year (Suppl.) Examination, November 2013****Subject: Biology****Time: 3 Hours****Max.Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1.(a) i) Describe the morphology and histology of monocot root with neat labelled diagram. (7)
- ii) Write different types of plant tissues and their functions. (7)

OR

- (b) i) Define inflorescence? Explain the different types of cymose inflorescence. (7)
- ii) Draw the structure of dicotyledonous seeds and label its parts. (7)

- 2.(a) i) Describe the vegetative and floral characteristics of apocyanaceae. (7)
- ii) Write a note on economic importance of scrophulariaceae. (7)

OR

- (b) i) Describe the distinguishing characteristics of umbelliferae family. (8)
- ii) Write the characteristics, floral formula, floral diagram of leguminaceae. (6)

- 3.(a) Explain the process of transpiration taking place in plants. (14)

OR

- (b) i) Write a note on gene mutations. (7)
- ii) Explain the process of absorption taking place in plants. (7)

- 4.(a) i) Discuss the histology of rabbit liver. (7)
- ii) Draw a neat labelled diagram of nervous system of frog. (7)

OR

- (b) i) Explain the differences between plant cell and animal cells. (7)
- ii) Describe the histology of smooth muscles of rabbit. (7)

- 5.(a) Describe the life history of *Trypanosoma* and the diseases spread by it. (14)

OR

- (b) i) Give the life history of *Ancylostoma*. (8)
- ii) Give the morphology and life cycle of *Leishmania*. (6)
