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Code No.: 4406

FACULTY OF PHARMACY**B. Pharmacy I Year (Suppl.) Examination, November/December 2010****BIOLOGY****Time : 3 Hours]****[Max. Marks : 70**

Note : Answer all questions. All questions carry equal marks. Draw neat and labelled diagrams wherever necessary.

1.a) i) Describe the underground stem modifications. 7

ii) Describe the structure of Ovule and write a note on fertilization. 7

OR

b) i) Describe the formation of wood. 7

ii) Draw neat and labelled diagram of T.S. of monocot root. 7

2.a) i) Describe the vegetative and floral characteristics of Papilionaceae (fabaceae) 8

ii) Write a note on economic and medicinal importance of Apocynaceae. 6

OR

b) i) Describe the vegetative and floral characteristics of Scrophulariaceae. 8

ii) Give the floral formula, floral diagram and economic importance of Rubiaceae. 6

3.a) i) Describe T.C.A. cycle in plants.

ii) Discuss the phenomenon of Absorption of water in plants. 7

OR

b) i) Discuss Mutations in plants. 7

ii) Discuss the Genetic Code. 7

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4. a) i) Draw neat and labelled diagram of Venous system of frog. 7

ii) Describe the histology of pituitary glands of Rabbit.

OR

b) i) Describe the urino-genital system of frog. 7

ii) Discuss Connective tissue in animals. 7

5. a) i) Describe the life-cycle of plasmodium in man. 7

ii) Describe the morphology and life-cycle of Ancylostoma. 7

OR

b) i) Discuss the role of mosquitoes as agents for spreading diseases.

ii) Describe the life-history of tapeworm. 7

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