

Total No. of Questions :6]

SEAT No. :

[Total No. of Pages :3

P1975

[5145] - 205

F.Y.B. Pharmacy

125: PHARMACOGNOSY

(2013 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) *Answer to the two sections should be written in separate books.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *All questions are compulsory.*

SECTION -I

Q1) Elaborate in detailed types, structure and function of meristematic and permanent tissue. **[10]**

OR

Define applied biology and give important branches of biology also explain relevance of biology to pharmaceutical sciences.

Q2) Attempt any five: **[15]**

- a) Explain RNA translation.
- b) Describe primary and secondary growth of plant cell.
- c) What are unorganized drugs.
- d) Explain morphology of leaf.
- e) Explain secretory plant cells.
- f) Explain Mendelian genetics.
- g) Explain in brief Mitosis process.

P.T.O.

Q3) Write short notes on any two:

[10]

- a) Types and function of stomata and trichomes.
- b) Morphology and microscopy of seed.
- c) Structure and function of protein.
- d) Morphology of Barks.

SECTION -II

Q4) Attempt any one:

[10]

- a) Define Pharmacognosy and explain the scope of Pharmacognosy in detail along with the contribution of various scientists.

OR

- b) Describe in detail significance, site and pathways involved in Photosynthesis.

Q5) Answer any five of the following:

[15]

- a) Explain in brief natural method of classification of crude drugs.
- b) Explain in brief food chain and energy flow.
- c) Discuss about dynamics of ecosystem.
- d) Explain in brief need for classification of plants.
- e) What is chemosynthesis?
- f) Explain in brief speciation and extinction.
- g) Explain biodiversity.

Q6) Write short note on any two of following:

[10]

- a) Components of ecosystem.
- b) Hybridization.
- c) Auxin and Gibberellins.
- d) Pollution and global warming.

EEE