

Total No. of Questions : 6]

SEAT No. :

P3147

[Total No. of Pages : 2

[5245]-205

First Year B. Pharmacy (Semester - II)

PHARMACOGNOSY

(2013 Pattern)

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answers 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 general morphology and microscopy of seed. [10]

OR

Explain in detailed structure, replication and transcription of DNA. Describe in detailed molecular basis of hereditary in genetics.

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

- a) Give various types of Inflorescence.
- b) Explain primary and secondary growth of plant tissue.
- c) Explain RNA translation.
- d) Describe relevance of biology to pharmaceutical sciences.
- e) Explain morphology of bark.
- f) Describe Mendelian genetics.
- g) Give excretory product of plant cells.

**Q3)** Write short notes on any two: [10]

- a) Cell division.
- b) Structure and function of Permanent tissue.
- c) Morphology of wood.
- d) Structure and function of protein.

***P.T.O.***

## SECTION - II

**Q4)** Attempt any one **[10]**

- a) Define Pharmacognosy and explain in detail account of contribution of various scientists in development of Pharmacognosy.

OR

- b) What is Photosynthesis. Explain in detail process of Photosynthesis.

**Q5)** Answer any five of the following: **[15]**

- a) Explain in brief Autotrophic and Heterotrophic mode of nutrition.
- b) What are the causes of noise pollution?
- c) Explain in brief Phytoremediation.
- d) Explain in brief food chain.
- e) Explain in brief factors responsible for rapid degradation of habitat of Western Ghats.
- f) Explain in brief natural method of classification of crude drugs.
- g) Explain in brief ecological succession.

**Q6)** Write short note on any two of following: **[10]**

- a) Hybridization
- b) Division of plant kingdoms
- c) Binomial nomenclature
- d) Mutation

