

T.Y.B.PHARM. SEMESTER-VI (2011 COURSE) : WINTER - 2017

SUBJECT: PHARMACOGNOSY-II

Day: Monday
Date: 20/11/2017

W-2017-3842

Time: 10.00 AM TO 01.00 PM
Max. Marks: 80

N.B:

- 1) **Q. No.1 and Q. No.5 are COMPULSORY.** Out of remaining attempt **ANY TWO** questions from each section.
- 2) Answer to the **TWO** sections should be written in **SEPARATE** books.

SECTION-I

Q.1 Answer the following question: (**ANY FIVE**) (10)

- a) Define extraction.
- b) What is decoction?
- c) What is supercritical fluid?
- d) State the methods of extraction of volatile oil.
- e) What are neutraceuticals?
- f) Draw the diagram of Soxhlet apparatus.

Q.2 Explain the theory of extraction? Write a note on Supercritical Fluid Extraction. (15)

OR

Explain Microwave assisted extraction. Elaborate its advantages over the conventional methods of extraction.

Q.3 a) Explain the application of HPLC in herbal drug evaluation. (08)
b) Write in detail about continuous hot extraction. (07)

Q.4 Write notes on (**ANY THREE**): (15)

- a) Percolation
- b) Cucumber as neutraceutical
- c) Maceration
- d) HPTLC

SECTION-II

Q.5 Answer the following question: (**ANY FIVE**) (10)

- a) Role of gibberelic acids.
- b) Cosmetic functions of sandalwood.
- c) Surface sterilization of explant.
- d) Compare callus and suspension culture.
- e) Highlight different phase of growth cycle.
- f) Bitterness value.

Q.6 Explain WHO guidelines for standardization of herbal drugs. Elaborate ash value and radioactive contaminants. (15)

OR

Highlight WHO guidelines for standardization of herbal drugs. Explain foreign organic matter and microbial load.

Q.7 a) Highlight the nutritional requirements in Plant Tissue Culture. (08)
b) Explain the protocol to establish plant cells under in vitro conditions. (07)

Q.8 Write notes on (**ANY THREE**): (15)

- a) Herbal cosmetics for skin care
- b) Compare moisture content and loss on drying
- c) Micropropagation
- d) Elicitation of plant cells