



Sessional II (Even) Semester Examination, May 2025

Roll no.....

Name of the Course and semester: **B.Pharm- IV sem**

Name of the Paper: **Pharmacognosy and Phytochemistry-I**

Paper Code: **BP 405T**

Time: **1.5-hour**

Maximum Marks: 30

Note:

- (i) This question paper contains three sections.
- (ii) All the questions are compulsory.

Section-A

Q1. Multiple Choice Questions – Attempt all questions

(10x 1 = 10 Marks)

- a. Who is known as the Father of tissue culture? [CO 3]
 - (i) Bonner
 - (ii) Laibach
 - (iii) Haberlandt
 - (iv) Gautheret
- b. The production of secondary metabolites requires the use of _____. [CO 3]
 - (i) Meristem
 - (ii) Protoplast
 - (iii) Cell suspension
 - (iv) Axillary buds
- c. The pair of hormones required for a callus to differentiate are _____. [CO 3]
 - (i) Ethylene and Auxin
 - (ii) Cytokinin and gibberellin
 - (iii) Auxin and Absciscic acid
 - (iv) Auxin and cytokinin
- d. What is Dimethyl sulfoxide used for? [CO 3]
 - (i) A gelling agent
 - (ii) An Alkylating agent
 - (iii) Chelating agent
 - (iv) Cryoprotectant
- e. The formation of embryoids from the pollen grains in the tissue culture medium is due to _____. [CO 3].
 - (i) Cellular totipotency
 - (ii) Test tube culture

- (iii) Double fertilization
 - (iv) Organogenesis
- f. Which one is not used as preventive measure in Chinese system of medicine? [CO 4]
- (i) Acupuncture
 - (ii) Tai-chi
 - (iii) Q-gong
 - (iv) Massage
- g. Common name used for massage therapy in Unani system . [CO 4]
- (i) Riyazat
 - (ii) Dalak
 - (iii) Hizamat
 - (iv) Fas'd
- h. Potency of drug is characterized by [CO 4]
- (i) Rasa
 - (ii) Veerya
 - (iii) Vipak
 - (iv) Guna
- i. Which one is volatile liquid alkaloid. [CO 4]
- (i) Pilocarpine
 - (ii) Berberidine
 - (iii) Nicotine
 - (iv) Reserpine
- j. Identify the odd one. [CO 4]
- (i) Myrrh
 - (ii) Copaiba
 - (iii) Chincona
 - (iv) Colophony

Section B

Q. 2 Short Questions: Attempt any two questions

(2x5 = 10 Marks)

- a. What are the principles and applications of plant tissue culture? [CO 3]
- b. Write properties of ideal edible vaccine. [CO 3]
- c. Write the identification test associated to Alkaloids. [CO 4]

Section C

Q. 3 Long questions: Attempt any one question

(1x10 = 10 Marks)

- a. Describe the nutritional requirements for the growth of explants. [CO 3]
- b. Describe Principle, humors, treatment and formulation in ayurvedic system of medicine. [CO 4]