

Question Paper

Exam Date & Time: 17-May-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacognosy and Phytochemistry I (Theory) [PCO-BP405T-S2]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Shape of the crude drug Aconite is _____ (1)
- [Cylindrical](#)
[Sub-cylindrical](#)
[Conical](#)
[Fuciform](#)
- 2) Example for recurved bark is _____ (1)
- [Cassia](#)
[Cinchona](#)
[Kurchi](#)
[Wild cherry bark](#)
- 3) Cell without cell wall is _____ (1)
- [Cellulose](#)
[Pectin](#)
[Protoplast](#)
[Nucleus](#)
- 4) Example for Macronutrient in plant tissue culture is _____ (1)
- [Zinc](#)
[Sulphur](#)
[Copper](#)
[Boron](#)
- 5) Micropropagation was first developed by _____ (1)
- [Kuster](#)
[Morel](#)
[Bergmann](#)
[Jones](#)
- 6) Protoplast fusion is also known as _____ (1)
- [Cryopreservation](#)
[Somatic hybridization](#)
[Biotransformation](#)

[Immobilization](#)

7) Gold beaters skin is a membrane prepared from intestine of (1)

- [Cat](#)
- [Rat](#)
- [Sheep](#)
- [Ox](#)

8) Chlorogenic acid is present in _____ (1)

- [Ipecac](#)
- [Rauwolfia](#)
- [Licorice](#)
- [Coffee](#)

9) Confirmatory test for Protein is _____ (1)

- [Fehling's test](#)
- [Barium chloride test](#)
- [Biuret test](#)
- [Molisch's test](#)

10) Capsule shell is prepared from _____ (1)

- [Acacia](#)
- [Gelatin](#)
- [Sterculia](#)
- [Starch](#)

11) Which of the following is **NOT** a marine source of crude drug? (1)

- [Agar](#)
- [Spermaceti](#)
- [Musk](#)
- [Carrageenan](#)

12) Pen-t' Sao is written by (1)

- [Tu Youyou](#)
- [Shen Nung](#)
- [Yabuta and Hayashi](#)
- [Nagai Nagayoshi](#)

13) Which of the following is **NOT** a chemical mutagenic agent? (1)

- [Nitrogen mustard](#)
- [Methyl methane sulphonate](#)
- [Mercuric chloride](#)
- [Ethyl methane sulphonate](#)

14) Plant is allowed to grow for a definite height and then it is cut off at specific distance from soil. (1)
Stumps are allowed to send shoots, which further allowed to grow aerial parts. These new parts are cut off and bark is collected from shoots. What is the name of this method of collection of bark?

- [Coppicing method](#)
- [Felling method](#)
- [Uprooting method](#)
- [None of the above](#)

- 15) Plant hormone involved in ripening process (1)
- [Abscisic acid](#)
[Auxins](#)
[Gibberellins](#)
[Ethylene](#)
- 16) Which of the following is a wood containing crude drug (1)
- [Quassia](#)
[Vasaka](#)
[Gymnema](#)
[Gokhru](#)
- 17) "Organon of Medicine" is written by (1)
- [Theophrastus](#)
[Samuel](#)
[Hahnemann](#)
[Nicolas Lemery](#)
[William withering](#)
- 18) "Moxibustion" practice is derived from which of the following system of medicine? (1)
- [Ayurvedic system of medicine](#)
[Homeopathic system of medicine](#)
[Unani system of medicine](#)
[Chinese system of medicine](#)
- 19) Allergy caused by hookworms, pinworms, threadworms, tapeworms are called as (1)
- [Contactant allergen](#)
[Infectant allergen](#)
[Infestant allergen](#)
[Injectant allergen](#)
- 20) Agent that can disturb the development of the embryo or foetus and cause congenital malformation (1)
- [Artemisinin](#)
[Arabic acid](#)
[8,9-tetrahydrocannabinol](#)
[Anthraquinone](#)

II Long Answers

Answer all the questions.

- 1) Describe morphological and microscopical evaluation of crude drugs (10)
- 2) Discuss the following (10)
- a) Basic principle involved in Chinese system of medicine. (6M)
- b) Discuss the role of Pharmacognosy in Ayurveda (4M)

III Short Answers

Answer all the questions.

- 1) Write a note on adulteration of crude drugs. (5)
- 2) What are pests? Discuss various types pests and pest control methods. (5)
- 3) Discuss in brief In-Situ conservation and Ex-Situ conservation of medicinal plant. (5)
- 4) Give the types of plant tissue culture and describe the isolation of protoplast. (5)
- 5) What are Glycosides. Classify them with example. (5)

- 6) What are allergens? Explain different class of allergens with examples. (5)
- 7) What are Proteins. Give various chemical tests for Proteins. (5)

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