

Exam Date & Time: 15-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacognosy and Phytochemistry-I [PCO-BP405T]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

1) Acacia appears in the form of _____

1) Tears	2) Angular masses	3) Flattened masses	4) Cylindrical pieces
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2) Aleurone grains are present in _____

1) Bark	2) Stem	3) Seed	4) Leaf
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3) Borntrager's test gives a positive reaction for _____

1) Tropane alkaloids	2) Saponin glycoside	3) Cardiac glycosides	4) Anthraquinone glycoside
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4) Murexide test is a specific test for following alkaloids

1) Indole	2) Purine	3) Quinoline	4) Isoquinoline
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5) Indeterminate organ culture is _____

1) Leaf culture	2) Flower culture	3) Ovule culture	4) Node culture
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6) Example for Cultures of multiple cell origin _____

1) Protoplast culture	2) Anther culture	3) Callus culture	4) Pollen culture
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7) Sucrose on hydrolysis gives Glucose and _____

1) Glucose	2) Fructose	3) Galactose	4) Rhamnose
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8) Nectar is present in _____

1) Flower		2) Fruit		3) Seed		4) Honey comb
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9) Presence of enzyme oxidase is the confirmative test for _____

1) Acacia		2) Tragacanth		3) Guar gum		4) Honey
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 (1)

10) Sulphate residue is present in _____

1) Acacia		2) Gelatin		3) Honey		4) Agar
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 (1)

11) Pharmacognosy term is coined by

1) Gregor Johann Mendel (1865)		2) Greenish & Collin (1904)		3) Seydler (1815)		4) Berg (1865)
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 (1)

12) Substances derived from animals (unorganized)

1) Aloes		2) Opium		3) Tragacanth		4) Musk
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 (1)

13) Quinoline alkaloids present in which of the following crude drug?

1) Opium		2) Cinchona		3) Ephedra		4) Ergot
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 (1)

14) Principle of Homeopathy

1) Sapta-Dhatu theory		2) Minimum dose theory		3) Four Humor theory		4) Pancha Mahabhuta theory
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 (1)

15) Example of Bio-fertilizer.

1) Agrobacterium tumefaciens		2) Azotobactor		3) Alternaria tennussima		4) Ascochyta atropae
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 (1)

16) Plant hormone used as selective weed killer

1) Ethylene		2) Absciscic acid		3) Ethephon		4) 2,4-Dichlorophenoxy acetic acid
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 (1)

17) Cinchona alkaloid factory is established in

1) Pune Maharashtra		2) Chennai Tamilnadu		3) Darjeeling West Bengal		4) None of the above
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 (1)

18) Cardiovascular agent from Marine source

1) Bryostatins		2) Discodermolide		3) Cytarabine		4) Octopamine
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 (1)

19) Which of the following is a chemical mutagenic agent?

1) Solasodin		2) Methyl methane sulphonate		3) Mercuric chloride		4) Sulphonilamide
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 (1)

20) _____ not a method of collection of bark drug (1)

1)	Felling		2)	Uprooting		3)	Coppicing		4)	Garbling	
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II Long Answers

Answer all the questions.

- 1) Discuss various extrinsic factors affecting cultivation of crude drugs. (10)
- 2) Describe the physical methods of evaluation of Crude drugs. (10)

III Short Answers

Answer all the questions.

- 1) Discuss the basic principles involved in Ayurveda. (5)
- 2) Give an account on Historical developments of plant tissue culture. (5)
- 3) Discuss the nutritional requirements for plant tissue culture. (5)
- 4) Define allergens and discuss various types with examples. (5)
- 5) What are Alkaloids. Classify them with examples. (5)
- 6) What are Carbohydrates. Explain the chemistry of Carbohydrates. (5)
- 7) Write a note on cotton as surgical fibres. (5)

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