

Question Paper

Exam Date & Time: 22-May-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Herbal Drug Technology [PCO-BP603T-S1]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Which of the following is "**NOT**" a WHO guideline for the GMP of herbal medicines? (1)
- [Complaints](#)
 - [Personnel](#)
 - [Biodynamic agriculture](#)
 - [Personal hygiene](#)
- 2) Which of the following is "**NOT**" a free radical? (1)
- [Singlet oxygen](#)
 - [Hydroxylamine](#)
 - [Super oxide anion](#)
 - [Hydroxyl ion](#)
- 3) Spirulina belongs to the family (1)
- [Spirulinaceae](#)
 - [Microcoleaceae](#)
 - [Macrocoleaceae](#)
 - [Plantaceae](#)
- 4) Kavain is the constituent of which of the following crude drug? (1)
- [Kava](#)
 - [Ephedra](#)
 - [Rauwolfia](#)
 - [Ginger](#)
- 5) Ephedra decreases the activity of (1)
- [Aspirin](#)
 - [Digoxin](#)
 - [Sennosides](#)
 - [Insulin](#)
- 6) Glucosinolates are obtained from which of the following vegetables? (1)
- [Legume](#)
 - [Cruciferous](#)
 - [Umbelliferous](#)
 - [None of](#)

- [these](#)
- 7) CDRI and NBRI are located in which place of India? (1)
- [Nagpur](#)
[Mumbai](#)
[Bangalore](#)
[Lucknow](#)
- 8) CRI is involved in the research of which of the following crude drugs? (1)
- [Clove](#)
[Fennel](#)
[Cardamom](#)
[Tobacco](#)
- 9) Safi is manufactured by the Lab (1)
- [Hamdard](#)
[Himalaya](#)
[Dabur](#)
[Zandu](#)
- 10) The annual turnover of the Indian herbal drug industry in Crores is (1)
- [3,200](#)
[2,300](#)
[3,300](#)
[4,300](#)
- 11) Swelling index is applicable for the crud drugs that contain (1)
- [Tannins](#)
[Saponins](#)
[Bitters](#)
[Mucilage](#)
- 12) Term of trade Secret in terms of years is (1)
- [Ten](#)
[Twenty](#)
[Thirty](#)
[Infinite](#)
- 13) The following sweat glands which secretes the body odour (1)
- [Mucous](#)
[Sebaceous](#)
[Eccrine](#)
[Epocrine](#)
- 14) Which of the following oil is virtually identical to human sebum? (1)
- [Coconut](#)
[Sunflower](#)
[Olive](#)
[Jojoba](#)
- 15) The factor responsible for building viscosity is (1)
- [Increase drug absorption](#)

- [Inhibit the crystal growth](#)
[Increase re-dispersibility of the sediments](#)
[All of the above](#)
- 16) Hausner's ratio is used for evaluation of (1)
- [Lotion](#)
[Syrup](#)
[Tablet](#)
[Emulsion](#)
- 17) Lawsone is coloring compound obtained from (1)
- [Hibiscus](#)
[Annatto](#)
[Henna](#)
[Avacado](#)
- 18) Which of the following is does not holds good for Excipients? (1)
- [Active ingredients in the formulation](#)
[Aid in processing of drug delivery system](#)
[Protect and enhance stability](#)
[Assist in product identification](#)
- 19) ASU drugs having no expiry date, record should be maintained up to how many years of the exhausting stock? (1)
- [Five](#)
[Four](#)
[Three](#)
[One](#)
- 20) Minimum sq feet area required for setting up ASU Medicine manufacturing unit is (1)
- [1000](#)
[1050](#)
[1100](#)
[1200](#)

II Long Answers

Answer all the questions.

- 1) Give a detailed account of preparation and standardization of Leha and Churna with examples. (10)
- 2) Write the procedure involved in the determination of Bitterness value and Tannin content of crude drugs as per the WHO guidelines. (10)

III Short Answers

Answer all the questions.

- 1) Briefly discuss the basic principles involved in Ayurveda. (5)
- 2) Give the role of Nutraceuticals in Diabetes. (5)
- 3) Write the Institutes involved to work on medicinal plants in India with their location and roles. (5)
- 4) Define and explain briefly the policy process of Bioprospecting. (5)
- 5) Define, classify and give the advantages of Cosmetics. Write about fixed oils (ANY TWO) used in skin care. (5)
- 6) Define and write the advantages of Novel dosage forms with a note on Ethosomes. (5)

- 7) What is Schedule-T of ASU drugs and enumerate its principles. Add a note on Water supply and Disposable of waste. (5)

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