Question Paper

Exam Date & Time: 19-May-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences
MAHE, Manipal
B.Pharm Semister VIII , End Sem Examination May 2023

Quality Control and Standardization of Herbals [PCO-BP806ET-S2]

Marks: 75 **Duration: 180 mins.**

I Multiple Choice Questions (MCQs)

Answer all the questions. Section Duration: 30 mins

1) Magnesium turning is used for which of the following test? (1)

- Vitali morin test
- Hagers test
- Shinoda test
- Liebermann-Burchard test

2) Modified Borntrager'test is carried out for (1)

- Indole alkaloids
- Purine alkaloids
- Cyanogenic glycosides
- Anthracene glycosides

3) Lignified tissue is stained with (1)

- Ruthenium red solution
- Potassium hydroxide solution
- Phloroglucinol and HCl
- Copper sulphate solution

4) Which of the following crude drug answers test for Alkaloid? (1)

- Isabgol
- Vinca
- Fennel
- Cassia

5) Silica crucible is used for determination of (1)

- Swelling index
- Foaming index
- Bitterness value
- Ash value

6) ASU drugs related provisions are described in chapter (1)

IV A
IV B
IV C
IV D

7) Long-term stability testing for herbal products to be stored at room temperature are (1)

25°C±2°C / 60%RH ±5%RH for 6 months
25°C±2°C / 60%RH ±5%RH for 12 months
25°C±2°C / 75%RH ±5%RH for 6 months
25°C±2°C / 75%RH ±5%RH for 12 months

8) Ayurvedic Pharmacopoeia of India came to existence in (1)

1992
1983
2010
1962

9) Misbranded drugs has been defined and is under the section (1)

33E
33EE
33EEA
33EEB

10) Acceptance criteria indicates which of the following limits in quality control of herbal drugs? (1)

Numerical
Alphabetical
Therapeutic
All of these

11) Which of the following is "NOT" a part of Herbal preparations? (1)

Tinctures
Extracts
Expressed juices
Isolated compounds

12) Tests, procedures, acceptance criteria, and limits are described under (1)

Standardization
Specifications
Markers
None of these

13) Control of herbal substances and preparations are as per the guidelines of (1)

CIMAP
CHMP
NBRI
CFTRI

14) Human healthy volunteers are involved in which of the following phase? (1)

III
II
I

IV

15) The finished goods transferred from the production area after proper packing shall be stored in the finished goods stores, marked as (1)

Finished goods stock
Quarantine
Finished product
None

16) Fresh plant materials should be ideally stored at (1)

2 - 8 °C
10 - 15 °C
20 - 30 °C
35 - 40 °C

17) Fertilizers should be applied sparingly to minimise (1)

Erosion
Leaching
Tillage
Weeds

18) National GLP compliance monitoring authority was established by DST India in the year (1)

1972
1970
2002
2010

19) Following is the environmental factor in GACP does not come under CLIMATE (1)

Radiation
Temperature
Mutation
Altitude

20) The domesticated, locally adapted, distinct identity of a traditional variety of species is known as (1)

Ecotype
Chemotype
Phenotype
Landraces

II Long Answers

Answer all the questions.

1) a) Define adulteration. Mention different types of adulteration with examples. (1+5)
b) Determination of foreign matter. (4M) (10)

2) Explain role of Chemical and Biological markers in standardization of Herbal products (10)

III Short Answers

Answer all the questions.

1) Write a note on Comparison of Indian Herbal and British Herbal Pharmacopoeia (5)

2) Explain HPLC is a tool for standardization and quality control of herbal drugs (5)

3)	Define drug stability. Explain the physical degradation that occurs during the storage of a product	(5)
4)	Discuss briefly the Phase I and Phase II of clinical trials of herbal medicines.	(5)
5)	Briefly explain on general considerations of herbal medicine research	(5)
6)	Describe the GLP (NGCMA) formation, scope, and certification in India	(5)
7)	Write briefly about good harvesting and collection practices as per GACP	(5)

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