Question Paper

Exam Date & Time: 08-Jul-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 2023

Quality Control and Standardization of Herbals [PCO-BP806ET-S3]

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

I Multiple Choice Questions (MCQs)

Answer all the questions. Section Duration: 30 mins

1) Crude drug containing abundant mucilage and answers Ruthenium red test (1)

- Clove
- Linseed
- Lemon grass
- Liquorice

2) Extractive value is used (1)

- To identify the presence of inorganic matter
- To identify exhausted drugs
- To identify impurities
- To identify pesticides

3) Bitter drugs used to (1)

- Thirst
- Urination
- Induce immunity
- Increase appetite

4) Foreign matter in whole or cut medicinal plant materials should be (1)

- NMT 2%
- NMT 8%
- NMT 10%
- NMT 15%

5) Which of the following method is used for determination of tannins? (1)

- Lycopodium spore method
- Hide powder method
- LOD
- None of the above

6) Standard of self-generated alcohol for Asavas & Arishtas prescribed in (1)

Rule 155
Rule 156
Rule 157
Rule 158

7) Column Chromatography is used for (1)

Identification of phytoconstituents
Quantification of phytoconstituents
Purification of phytoconstituents
All of the above

8) Indian Herbal Pharmacopoeia was published in the year (1)

1992
2002
2010
1975

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

33EEA
33EEB
33EEC
33EED

10) Which of the following is "NOT" a part of protocol preparation? (1)

Literature survey
Technology transfer
Working hypothesis
Ethical aspects

11) Database related to herbal medicine and natural products are "NOT" established in which of the following countries? (1)

China
Japan
United States
Bangladesh

12) Which of the following professions come under healthcare? (1)

Pharmacy
Judicial
Railway
Postal

13) Ratio of herbal substance to genuine preparation is called (1)

DAR
DUM
DER
DEP

14) Active markers are responsible for which of the following? (1)

Therapeutic
Analytical

Aeronautical
Biomedical

15) Propagation materials in GACP should be free from contamination and tolerant to the following abiotic factor (1)

Bacteria
Fungus
Animals
Minerals

16) The ultimate goal of GMP is (1)

The manufacturing process is as has been prescribed to maintain the standards
Safeguarding the health of the patient as well as producing good quality medicine
The manufactured drug which is released for sale is acceptable quality
All of the above

17) Scientific name of the plant is recorded in the following order (1)

Genus, species, author, family
Species, genus, author, family
Author, genus, species, family
Family, genus, species, author

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

1972
1970
2002
2010

19) 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

20) Fertilizers should be applied sparingly to minimize (1)

Erosion
Leaching
Tillage
Weeds

II Long Answers

Answer all the questions.

1) Explain the following; (10)
Bitterness value (3M)
Foaming Index (3M)
Determination of pesticide residue (4M)

2) Describe the comparison of various Herbal Pharmacopoeia (10)

III Short Answers

Answer all the questions.

1)	Explain the Issues in Stability Testing of Herbal Products	(5)
2)	With the help of neat labelled diagram explain Gas liquid chromatography as tool for standardization of herbal drugs.	(5)
3)	What are the functions of National Pharmacovigilance centre and Uppsala monitoring centre	(5)
4)	Discuss briefly the control tests for herbal raw materials, preparations and medicinal products	(5)
5)	Briefly explain about the objectives for non-clinical studies and general considerations of pharmacological investigations	(5)
6)	Explain the SOPs for the careful cultivation of medicinal plants.	(5)
7)	What are Good Manufacturing Practices? State its objectives and significance	(5)

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