



**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**
MANIPAL
(A constituent institution of MAHE, Manipal)

B.Pharm Semester VIII, End Sem Examination 2021

Quality Control and Standardization of Herbals - PCO-BP806ET

Date: 09/07/2021

Time: 2.30-4.30PM

Max. Marks: 50

Note:

1. In each page write Class, Register No. Name, Signature with date
2. View QP before writing and press turn in button after uploading answer

IMCQ

20Qx1 = 20marks

1. Which of the following parameter is determined for mucilaginous drugs?

(1 Point)

- Bitterness value
- Swelling index
- Volatile oil content
- Refractive index

2. In-organic matter present in crude drugs are determined by

(1 Point)

- Lycopodium spore method
- Ash value
- Extractive value
- Ester value

3. Following is the environmental factor in GACP does not come under CLIMATE

(1 Point)

- Radiation
- Temperature
- Mutation
- Altitude

4. Tests, procedures, acceptance criteria, and limits are the part of

(1 Point)

- Specifications
- Standardization
- Markers
- None of these

5. Saponin Glycosides are identified by which of the following tests

(1 Point)

Biuret test

Hemolytic test

Fiehe's test

Baljet's test

6. Spurious drugs have been defined and is under the section

(1 Point)

33EEA

33EEB

33EEC

33EED

7. The main objective of clinical trials is to validate _____ of medicine

(1 Point)

Safety

Quality

Estimation

Quantity

8. Acceptance criteria indicates _____ limits in quality control of herbal drugs

(1 Point)

Alphabetical

Numerical

Therapeutic

None of these

9. The finished goods transferred from the production area after proper packing shall be stored in the finished goods stores, marked as

(1 Point)

Finished goods stock

Quarantine

Finished product

None

10. Following is considered as chemical change of herbal product

(1 Point)

Crystal growth

Polymorph change

Hydrolysis of constituent

Colour change

11. Database related to herbal medicine and natural products are established in which of the following countries?

(1 Point)

China

Japan

United States

All of these

12. Fertilizers should be applied sparingly to minimise
(1 Point)

Erosion

Leaching

Tillage

Weeds

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

1972

1970

2002

2010

14. Purine alkaloid is identified by
(1 Point)

Shinoda test

Keller Killani test

Murexide test

Van urk test

15. Test for Alkaloid - Iodine in Potassium iodide
(1 Point)

Wagner's test

Hager's test

Dragendorff's test

Mayer's test

16. Aniline phthalate solution is used to detect
(1 Point)

Alkaloids

Amino acids

Sugars

Phenolic compounds

17. Post marketing surveillance in case of herbal medicines is involved in ____ phase of clinical trials
(1 Point)

I

II

III

IV

18. Domesticated, locally adapted, distinct identity of traditional variety of species are known as
(1 Point)

Ecotype

Chemotype

Phenotype

Landraces

19. Indian Herbal Pharmacopoeia was published in the year
(1 Point)

1992

2002

2010

1975

20. Schedule E(I) in ASU drugs refers to
(1 Point)

List of Excipients substances under the ASU Systems of Medicines

List of Spurious drugs under the ASU Systems of Medicines

List of Banned substances under the ASU Systems of Medicines.

List of poisonous substances under the ASU Systems of Medicines

II Short Answers

Answer all the questions

6Qx5 = 30 marks

1. Define and explain different types of Ash value and its significance.
2. What are the functions of National Pharmacovigilance center and Uppsala monitoring center?
3. Write a note on role of chemical markers in standardization of Herbal products.
4. Define and distinguish between herbal substance, herbal preparation and herbal medicinal product with examples.
5. With the help neat labelled diagram explain Gas Liquid Chromatography and its applications.
6. Summarize the need for GACP guidelines and objectives