

PARUL UNIVERSITY
FACULTY OF PHARMACY
B. Pharm. Summer 2022 - 23 Examination

Semester: 6**Subject Code: BP603T****Subject Name: Herbal Drug Technology****Date: 18/ 04/2023****Time: 10:00am to 1:00pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. The concept of biodynamic agriculture was proposed by
 - a) Rudolf Steiner
 - b) Rudolf Withering
 - c) Rudolf Fleming
 - d) Alex Steiner
2. Herbal material can be authenticated by
 - a) ASI
 - b) CSI
 - c) IUPAC
 - d) BSI
3. Pesticidal substances that plants produce from genetic material that has been added to the plant is
 - a) Pesticide Toxicity
 - b) Plant Insect Protection
 - c) Plant Incorporated Protectants
 - d) Pesticide Residue
4. The number of *Siddhars* mentioned in *Siddha* system of medicine is
 - a) 17
 - b) 18
 - c) 19
 - d) 29
5. *Unani* system of medicine is based on principles of
 - a) 4 humours
 - b) 5 humours
 - c) 4 Gunas
 - d) 5 Gunas
6. The term Nutraceutical was coined by
 - a) Rudolph Defelice
 - b) William Withering
 - c) Stephen Defelice
 - d) Rudolf Steiner
7. *Kava-kava* when used in combination with MAO produces
 - a) Addictive effect
 - b) Agonist effect
 - c) Antagonist
 - d) No effect
8. Wetting time is an evaluation parameter of
 - a) Tablet
 - b) Shampoo
 - c) Cream
 - d) Mixture
9. Annatto seed contains which carotenoid pigment
 - a) Crocin
 - b) Bixin
 - c) Capsaicin
 - d) Indigotin
10. Guar gum is obtained from endosperm of
 - a) Seed of *Camellia sinensis*
 - b) Fruit of *Camellia sinensis*
 - c) Seed of *Cyamopsis tetragonolobus*
 - d) Fruit of *Cyamopsis tetragonolobus*
11. Mucilage content can be determined by
 - a) Foaming index
 - b) Swelling index
 - c) Total tannin content
 - d) All of the above
12. TKDL stands for
 - a) Tris Knowledge Diversity Limited
 - b) Traditional Know Digital Lot
 - c) Traditional Knowledge Digital Library
 - d) None of the above
13. A patent should be
 - a) A new invention
 - b) Non-obvious
 - c) Capable of industrial application
 - d) All of the above
14. An US patent was granted to turmeric for its
 - a) Anticancer activity
 - b) Wound healing activity
 - c) Antihypertensive activity
 - d) Antioxidant activity

15. DTAB is
- | | |
|----------------------------------|---------------------------------------|
| a) Drugs Technology and Board | b) Drugs Technical Advisory Board |
| c) Drugs Technical Advice Bureau | d) Drugs Technology Application Board |
16. An Government institution working on medicinal plants in India is,
- | | |
|-------------|---------------------|
| a) ICMR | b) Dabur |
| c) Himalaya | d) All of the above |
17. Good manufacturing practices for *Ayurveda*, *Siddha* and *Unani* drugs are included in
- | | |
|---------------|---------------|
| a) Schedule M | b) Schedule N |
| c) Schedule T | d) Schedule Q |
18. _____% of developing nation population rely on herbal drugs as per WHO
- | | |
|-------|-------|
| a) 80 | b) 15 |
| c) 25 | d) 30 |
19. _____ is a part of a quality system covering the manufacture and testing of active ingredients and finished products.
- | | |
|--------|--------|
| a) GHP | b) GMP |
| c) GLP | d) ISO |
20. Which is not an herbal industry
- | | |
|------------------------------|--------------------------|
| a) Zandu Pharmaceutical | b) Charak Pharmaceutical |
| c) The Himalaya Drug Company | d) Pfizer |

Q.2 Long Answers (any 2 out of 3) (10 Mark Each)

(20)

1. Explain the importance of selection, identification and authentication of herbal materials.
2. a) Write about the beneficial role of nutraceuticals in diabetes.
b) Discuss the significance of herbal sweeteners with examples.
3. a) Analyse the case study of Neem in terms of biopiracy.
b) Describe the infra structure requirements of GMP for Indian system of medicines.

Q.3 Short Answers (any 7 out of 9) (5 Mark Each)

(35)

1. Explain the basic principles of *Ayurveda*.
2. Write a note on biopesticides.
3. Discuss the role of nutraceuticals in cancer prevention.
4. Define herbal formulations. Write a note on evaluation parameters of herbal tablet.
5. Explain at least five WHO parameters for the assessment of herbal drugs
6. Elaborate the process of filing an Indian patent.
7. Describe the present scope and future prospects of herbal industry.
8. What is schedule-T? Explain its objectives.
9. What does "*Similia Similibus Curentur*" mean? Explain.