

**B. PHARM.  
SIXTH SEMESTER  
HERBAL DRUG TECHNOLOGY  
BP603T**  
[USE OMR SHEET FOR OBJECTIVE PART]

**SET  
A**

Duration : 3 hrs.

Full Marks : 75

**[ PART-A: Objective ]**

Time : 30 min.

Marks : 20

Choose the correct answer from the following:

1×20=20

1. Biopesticides which includes..
  - a. Soil bacterium
  - b. Bacillus thuringiensis
  - c. Both a and b
  - d. None of the above
2. Herbal drug preparation is produced by..
  - a. Extraction and fractionation
  - b. Purification
  - c. Concentration
  - d. All of the above
3. Biodynamic agriculture is a..
  - a. Farming methods which aim to treat a farm as living system.
  - b. Making life-giving compost from dead material
  - c. Both a and b
  - d. None of the above
4. The presence of blood, phlegm, yellow bile and black bile in every person explained by.
  - a. Theory of Ayurveda
  - b. Unani theory
  - c. Siddha theory
  - d. None of the above
5. Bhasma includes the first stage of method of preparation
  - a. Marana
  - b. Shodhana
  - c. Both a and b
  - d. None of the above
6. Homeopathy system of medicines is based on the principle of
  - a. Law of simillia
  - b. Minimum dose
  - c. Both a and b
  - d. None of the above
7. Unani system was originated from.
  - a. Greece
  - b. Iran
  - c. India
  - d. China
8. Garlic is having interaction with
  - a. Warfarin
  - b. Saquinavir
  - c. Indinavir
  - d. Both a and b
9. Spirulina consists of dried biomass of..
  - a. Arthrospira platensis
  - b. Arthrospira maxima
  - c. Blue -green algae
  - d. All of the above

10. Biological source of Ashwagandha is..
  - a. Withania somnifera
  - b. Allium sativum
  - c. Allium hookeri
  - d. Emblica officinalis
11. Probiotics includes...
  - a. Gram positive cocci
  - b. Lactobacilli
  - c. Both a and b
  - d. None of the above
12. Rice bran is helpful in
  - a. Cardiovascular disease
  - b. Eyesight and cataract
  - c. Lung cancer
  - d. Obesity
13. A beta-damascenone, beta-damascone and beta-ionone are the components of..
  - a. Eucalyptus oil
  - b. Rose oil
  - c. Citronella oil
  - d. Cinnamon oil
14. Bleaching agents used in cosmetics..
  - a. Citrus extracts
  - b. Licorice extracts
  - c. Alpha-hydroxyl acids
  - d. All of the above
15. Guanine colorant derived from..
  - a. Tomatoes
  - b. Herring fish scales
  - c. Turmeric
  - d. Mushrooms
16. Different processes used in the formulations of herbal mixtures, except.
  - a. Distillation
  - b. Expression
  - c. Centrifugation
  - d. Infusion
17. Patentee is a...
  - a. Claimer of the patent
  - b. Approver for the patent
  - c. Buyer of patent
  - d. None of the above
18. Batch manufacturing records (BMR) includes..
  - a. List of raw materials and their quantities
  - b. Distribution of products
  - c. Physical characteristics
  - d. Both A and C
19. Certain categories of Ayurvedic, Siddha and Unani medicines like Bhasma, Rasa, etc. Which don't have expiry, their records should be maintained...
  - a. Up to 3 years of the exhausting of stock
  - b. Up to 4 years of the exhausting of stock
  - c. Up to 5 years of the exhausting of stock
  - d. Up to 6 years of the exhausting of stock
20. For Asava/Arishta, Sura and Syrup following equipment used.
  - a. Liquid filling machine
  - b. Filter press/Gravity Filter
  - c. Tincture press
  - d. All of the above

**( PART-B : Descriptive )**

Time : 2 hrs. 30 min.

Marks : 35

*[ Answer any seven (7) questions ]*

1. Write different steps involved in phytomedicine developments. 5
2. Explain biopesticides along with examples. 5
3. Write the principle of Unani system of medicine. 5
4. Explain  $\beta$ -carotene and probiotics as nutraceutical. 5
5. Write a note on bleaching agents and antioxidants used in cosmetic formulations. 5
6. Explain the different methods used for the formulations of herbal mixtures. 5
7. Write a note on Curcumin patent. 5
8. Write a note on ASU Drug Technical Advisory Board. 5
9. Write down the present scope and future prospects herbal drug industry. 5

**( PART-C: Long type questions )**

*[ Answer any two (2) questions ]*

1. Explain the preparation of Asava and Bhasma with suitable examples. 5+5=10
2. Discuss the role of nutraceuticals in the treatment of different diseases. 10
3. Explain Good Manufacturing Practice of Indian system of medicine. 10

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