

**B. PHARM.  
SIXTH SEMESTER  
HERBAL DRUG TECHNOLOGY  
BP603T [SPECIAL REPEAT]  
[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**

- Patent is a form of
  - Tangible property
  - Institutional property
  - Intellectual property
  - None
- There are \_\_\_\_\_ types of Vedas
  - One
  - Two
  - Three
  - Four
- Which term describes a substance in a nutraceutical that provides health benefits beyond basic nutrition?
  - Phytochemical
  - Macronutrient
  - Micronutrient
  - Bioavailability
- Phytosomes are?
  - Colloidal particles
  - Microspheres
  - Herbal mixture
  - Herbal ingredients bonded by phospholipids
- DTAB stands for
  - Drugs Technical Advisory Board
  - Drugs Technological Advisory Board
  - Both
  - None
- In accordance with ICH guidelines for long-term stability studies under controlled room temperature storage conditions, the testing condition is:
  - 30°C and 60% RH for 6 months
  - 40 °C and 75% RH for 6 months
  - 25 °C and 60% RH for 12 months
  - 60 °C and 75% RH for 2 days
- GMP of Ayurvedic, Siddha and Unani Medicines are specified in \_\_\_\_\_ of D&C Act.
  - Schedule T
  - Schedule A
  - Schedule M
  - None of these
- Agni relates to
  - Movements of the body
  - Digestion of the body
  - Space within the body
  - None
- Turmeric imparts yellow colour due to the presence of
  - Zingiberene
  - Curcumenol
  - Curcumin
  - Eugenol

10. Chemical toxins may be present in the herbal drugs due to
  - a. Unfavorable postharvest techniques
  - b. Wrong storage conditions
  - c. Chemical treatment during the storage period etc.
  - d. All
11. Another name for fenugreek is
  - a. Methi
  - b. Saffron
  - c. Garlic
  - d. None
12. Which part of stevia is used to isolate sweetener
  - a. Root
  - b. Bark
  - c. Leaf
  - d. Seed
13. Herbs are defined as plants with
  - a. Aromatic properties
  - b. Flavouring properties
  - c. Medicinal properties
  - d. All
14. Arista is a
  - a. Fermented decoction
  - b. Fermented infusion
  - c. Decoction
  - d. Herbal mineral medicine
15. Which of the following phytochemicals is primarily responsible for producing the characteristic color in henna?
  - a. Tannins
  - b. Lawsone
  - c. Anthocyanins
  - d. Curcumin
16. Quarantine includes
  - a. Destination of raw materials
  - b. Storage of raw materials
  - c. Storage of finished goods
  - d. Storage of final products
17. Which of the following is natural occurring antioxidant
  - a. Vitamin C
  - b. Vitamin E
  - c. Alpha lipoic acid
  - d. All
18. Identification test includes
  - a. Macroscopic character
  - b. Chemical reaction
  - c. Microscopic character
  - d. All
19. Records of sale and distribution of each batch of Ayurveda, Siddha and Unani Drugs shall be maintained up to \_\_\_\_ of the exhausting of stock
  - a. 2 years
  - b. 5 years
  - c. 10 years
  - d. 15 years
20. What is the purpose of using excipients in herbal drug formulations
  - a. To enhance taste
  - b. To improve stability
  - c. To increase bioavailability
  - d. All of the above

**( PART-B :Descriptive )**

Time : 2 hrs. 30 min.

Marks : 35

*[ Answer any seven (7) questions ]*

1. Outline the regulatory requirements pertaining to the hygiene standards in factory premises for the manufacturing of Ayurvedic, Siddha, and Unani (ASU) drugs, in accordance with Section 33-EEB of the Drug and Cosmetics Act. 5
2. Write a note on Indian System of Medicines. 5
3. Compose a brief note on interactions between herbs and drugs, as well as between herbs and food. 2.5+2.5  
=5
4. Write a note on the conventional methods for herbs selection, identification and authentication. What are the different types of drying? Give examples. 5
5. Write a note on different types of herbal formulations. 5
6. Write a note on herbal excipients. 5
7. 5  
Write a note on herbal industry and its future prospects.
8. Write a note on the Ayurvedic, Siddha and Unani Drugs Technical Advisory Board (ASU-DTAB) 5
9. Compose a brief explanation regarding Stability studies and the associated testing procedures applicable to herbal medications. 5

**PART-C: Long type questions**

*[ Answer any two (2) questions ]*

1. Write a note on novel dosage forms taking into account 'Phytosomes'. 10
  
2. What are nutraceuticals? How are they different from pharmaceuticals? Write a note on the health benefits of nutraceuticals in the prevention of various diseases. 2+3+5  
=10
  
3. Write a note on Schedule T- Good manufacturing Practice of Indian System of Medicine. 10

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