

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: B.Pharm.
BRANCH: PHARMACY**

**SEMESTER: VI
SESSION:**

SUBJECT: BP 603T HERBAL DRUG TECHNOLOGY

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
 2. Before attempting the question paper, be sure that you have got the correct question paper.
 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
 4. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.
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PART-I

Q.1. Objective types questions (Instruction: Answer all questions)

(0.5X8)

- Q.1. Molecular marker means –
- | | |
|-----------------------------|------------------------|
| a) Biochemical constituents | b) Primary metabolites |
| c) Secondary metabolites | d) All |
- Q. 2. Herbs are defined as plants with-
- | | |
|--------------------------|-------------------------|
| a) Aromatic property | b) Medicinal properties |
| c) Flavouring properties | d) All |
- Q.3. Organic farming means-
- | | |
|-----------------------------|-----------------------------|
| a) Not to use pesticides | b) Used organic fertilizers |
| c) To optimize productivity | d) All |
- Q.4. Undesired plants in the field are known as –
- | | | | |
|----------|----------|----------------|------------|
| a) Pests | b) Weeds | c) Cover crops | d) Buffers |
|----------|----------|----------------|------------|
- Q.5. Crop rotation helps in-
- | | |
|-----------------------|----------------------------------|
| a) Reload of the soil | b) Provide nutrients to the soil |
| c) Disrupts the weeds | d) All |
- Q.6. There are types of Vedas-
- | | | | |
|--------|--------|----------|---------|
| a) One | b) Two | c) Three | d) Four |
|--------|--------|----------|---------|
- Q.7. Siddha system of medicine originate from-
- | | |
|--------------------|----------------------|
| a) Tamil culture | b) Bengali culture |
| c) Punjabi culture | d) Northeast culture |
- Q.8. Shodhna is another name of –
- | | |
|-----------------|-----------------|
| a) Distillation | b) Maceration |
| c) Filtration | d) Purification |
- Q.9. Write down the full form of (0.5 X4=2.0)
- | | | | |
|--------|----------|----------|---------|
| i) ASU | ii) DTAB | iii) ASU | iv) DCC |
|--------|----------|----------|---------|
- Q.10. Define the following terms with examples- (2X5=10)
- | | | | |
|-----------------------------|---------------------|-------------------------------|--|
| i) Herb | ii) Herbal Medicine | iii) Herbal Medicinal Product | |
| iv) herbal drug preparation | v) Patent | | |
- Q.11. Write down the biological source and uses of Ginger and Ginseng. (2X2=4)

PART-II
Short Answers
(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q2. Describe the basic principles involved in Siddha system of medicine.
- Q3. Define Pests. Describe the various methods pest management for the protection of medicinal plants.
- Q4. Give the importance of physical and chemical characters of any medicinal plants.
- Q5. What is the significance of herbal excipients?
- Q6. What do you mean by evaluation of drugs?
- Q7. Write objectives of Schedule T.
- Q8. Write a note on herbal drug industry.
- Q9. Define and classified herbal cosmetics.
- Q10. Write short note on Herbal skin care products.

PART-III
Long Answers
(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q11. How will you define bio insecticides? Classify them. Write down their advantages in the cultivation of medicinal plants.
- Q12. Explain preparation and standardization of Aristas and Asava.
- Q13. Explain the various components of GMP.

:DD/MM/YYYY: