

June
25/6/2022

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	6 th
Subject	Herbal Drug Technology
Subject Code	BP603T
Paper ID	77988
Time	3Hours
Maximum Marks	75

Instructions to Candidates: No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO.

*** Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	What are Aristas and Asvas?
ii.	Define the term Herbal drug preparation.
iii.	List any four plant-based industries in India.
iv.	Describe storage conditions for accelerated stability testing of herbal drugs.
v.	What are Probiotics? Give examples.
vi.	Enlist various examples of herbal sweeteners.
vii.	Define the term Biopiracy and Bioprospecting.
viii.	Name two herbs used in dental care with their biological source.
ix.	Give the health benefits and role of nutraceuticals in CVS diseases.
x.	What do you mean by evaluation of drugs?

Section B

(2 X 10 = 20)

2.	Discuss briefly about various steps involved in the processing of herbal materials.
3.	Briefly explain the components and objectives of Schedule T.
4.	Write a detailed note on patenting of traditional knowledge (TK) and natural products with case studies.

Section C

(7 X 5 = 35)

5.	Describe the possible side effects and interactions of Garlic and Ephedra.
6.	Write a short note on binders and diluents used as herbal excipients.
7.	Describe the herbs used in hair care with suitable examples.
8.	Write the scope and future prospects of herbal drug industry.
9.	Write a note on general aspects, market growth and global scenario of nutraceuticals.
10.	Explain the basic principles of Ayurvedha and Siddha.
11.	What are Phytosomes? Give their method of preparation.
12.	Write a note on stability testing of herbal drugs.
13.	Explain the objectives and functions of ASU and DCC.

Note: Disclosure of identity by writing mobile number or making request for passing on any page of answer-sheet will lead to UMC against the candidate.

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Section A

(10 X 2 = 20)

1. Give very short answers to the followings (2 marks each):

i.	Define Herbal drug Preparation.
ii.	Define Aristhas and Asvas.
iii.	What are Phytosomes?
iv.	Define Nutraceuticals.
v.	Write in brief about health benefits of PUFA.
vi.	Write sources and uses of Spirulina.
vii.	Give examples of Hair care products.
viii.	What do you mean by Biopiracy and Bioprospecting?
ix.	What is Schedule Z of Drugs & Cosmetics act for ASU drugs?
x.	Define Patent.

Section B

(2 X 10 = 20)

2.	Discuss the various requirements and procedures in the GMP of herbal drug industry according to Schedule T of Drug and Cosmetic Act.
3.	Write about the market of Nutraceuticals. What is the scope in market growth of nutraceutical in coming future?
4.	Write down the steps involved in Processing of herbal raw material. What precautions are to be taken care of while processing herbal raw material.

Section C

(7 X 5 = 35)

5.	Discuss possible interactions of Pepper with food and drugs and their side effects.
6.	Discuss the case study of Neem.
7.	Discuss the scope and future prospects of herbal drug industry.
8.	What is Traditional knowledge? What is its importance?
9.	Write a brief note on Oral care products.
10.	Discuss the role of nutraceuticals in CVS disease and Cancer.
11.	What are the steps involved in the preparation of Bhasmas? Write down their method of standardisation.
12.	Give the importance and uses of alfa-alfa & Kava-Kava.
13.	Why stability testing of herbal drugs is a challenging issue?

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