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Roll Number -----

(Total Number of Questions 13)

(Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	4 th
Subject	Pharmacognosy and Phytochemistry-I
Subject Code	BP405T
Paper ID	75847
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.	Define Pharmacognosy. Who coined the word 'Pharmacognosy'?
ii.	Define Flavone and Flavanone.
iii.	What are Crude drugs? Give its types.
iv.	Write the complete biological source of Cotton.
v.	What do you mean by a Mutagen? Give example.
vi.	Write the differences between Gum and Mucilage.
vii.	Define Callus culture.
viii.	What is the word meaning of "Ayurveda"?
ix.	Define Teratogens and give any one example of plant teratogen.
x.	What are Cardiac Glycosides?

Section B

(2 X 10 = 20)

2.	What do you mean by Cultivation? Discuss various factors affecting cultivation.
3.	What is Adulteration? Write its types with example. How adulteration can be detected by Chemical evaluation?
4.	Write short note on- a. Alkaloids and its classification b. Applications of Plant Tissue Culture

Section C

(7 X 5 = 35)

5.	What you understand by Conservation of medicinal plants?
6.	How you can classify crude drugs by Morphological Classification?
7.	Write a detailed note on 'Honey'.
8.	Give various examples for anticancer and anti-inflammatory marine drugs.
9.	Give the basic concept of Edible Vaccines.
10.	Write source, preparation, storage and commercial utility of Gelatin protein.
11.	Write about Homeopathy system of medicine.
12.	Classify Tannins with examples.
13.	Write a short note on Hybridization in plants.

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.	What is edible vaccine?
ii.	What is Law of Similia of Homeopathy?
iii.	Why Lycopodium spores are used in quantitative microscopy?
iv.	Give biological source, chemical constituents and uses of Hemp.
v.	Differentiate between organized and unorganized drugs.
vi.	What is Hybridization?
vii.	Write chemical constituents and uses of Bees wax.
viii.	Define Palisade ratio.
ix.	What are anthraquinone glycosides? How they are chemically detected?
x.	What is the role of Auxin as plant hormone?

Section B

(2 X 10 = 20)

2.	What is cultivation? Give its advantages. Write various factors affecting cultivation.
3.	Write in details about classification of crude drugs.
4.	Explain the role Pharmacognosy in various traditional systems of medicine.

Section C

(7 X 5 = 35)

5.	Write a note on applications of PTC.
6.	Define Alkaloids and write their physical and chemical properties.
7.	Add a brief note on Honey.
8.	Write about any one fibre obtained from plants.
9.	Define adulteration? How physical evaluation of crude drugs can be carried out?
10.	Write a note on volatile oils.
11.	Briefly explain novel medicinal agents obtained from marine sources.
12.	Which factors are to be considered for collection of crude drugs?
13.	What are Natural allergens?

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250123

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Section- A**(10X2=20)**

I.	Give very short answers to the followings:
i.	Define flavonoids?
ii.	Differentiate between organized and unorganized crude drugs with example.
iii.	What do you mean by serotaxonomical classification?
iv.	Give biological source and uses of castor oil.
v.	Write the role of agar in plant tissue culture.
vi.	What is Mutation? Give example.
vii.	Give two examples of anticancer and anti-inflammatory drugs from marine sources.
viii.	Define teratogens with example of plant teratogen.
ix.	What are tannins? How they are classified?
x.	What is the role of auxin as plant hormone?

Section- B**(2X10=20)**

2.	What is cultivation? Give its advantages. Write various factors affecting cultivation.
3.	Write in detail about applications of plant tissue culture with reference to pharmacy.
4.	How the organoleptic and physical evaluation helps in detection of adulteration in crude drugs?

Section- C**(7X5=35)**

5.	Write a note on natural allergens.
6.	Explain in brief lycopodium spore method for quantitative microscopy.
7.	What is conservation of medicinal plants? Write its importance.
8.	Write the role of Pharmacognosy in Ayurveda system of medicine.
9.	Write a short note on anthraquinone glycosides.
10.	Give biological source, chemical constituents and therapeutic uses of casein protein and honey.
11.	Explain various methods to isolate volatile oil from crude drugs.
12.	Write a short note on any one plant fibre.
13.	Briefly explain the concept of edible vaccine.

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30 MAY 2023

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*** 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:
i.	Define Pharmacognosy.
ii.	Differentiate between organized and unorganized drugs.
iii.	What is mutation of medicinal plants?
iv.	Give two tests of identification for tannins.
v.	Define chemo taxonomical classification of drugs.
vi.	What is hairy root culture?
vii.	Define alkaloids.
viii.	Give complete biological source of castor oil.
ix.	Define hallucinogens.
x.	Give biological source of honey.

Section- B

(2 X 10 = 20)

2.	Write a detailed note on applications of plant tissue culture in Pharmacognosy.
3.	Discuss natural drugs of marine origin.
4.	Write a detailed note on volatile oils.

Section- C

(7 X 5 = 35)

5.	Write a note on about quantitative microscopy.
6.	Discuss briefly natural allergens.
7.	Write a note on nutritional requirements of PTC.
8.	Discuss briefly traditional systems of medicine.
9.	Write a note on gelatine.
10.	Discuss factors affecting cultivation of medicinal plants.
11.	Write a note on drug adulteration.
12.	What are plant hormones? Write their applications.
13.	Discuss cotton fibres briefly.

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***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 following:
i.	How adulteration by artificially manufactured substances can be carried out?
ii.	What are biofertilizers?
iii.	Define callus culture.
iv.	Which chemical tests help to identify cardiac glycosides?
v.	Give biological sources and uses of Gelatin.
vi.	Enlist various ways of classification of crude drugs.
vii.	How do auxins and cytokinins differ in their actions as phytohormones?
viii.	Define polyploidy.
ix.	Explain Chemo-taxonomic classification.
x.	Why leaf constants are important?

Section B

(2 X 10 = 20)

2.	Define adulteration. How do adulterations write their types? How it can be detected in crude drugs?
3.	Write in detail about Edible vaccines.
4.	Why conservation of crude drugs is important? Discuss in detail various ways of conservation of medicinal plants.

Section C

(7 X 5 = 35)

5.	Write an account of Plant fibres. Give the biological source, chemical nature and uses of Cotton.
6.	Explain the principles followed by the Unani system of medicine.
7.	Write a note on quantitative microscopy.
8.	What are pests? Give various ways of pest control.
9.	Write a note on Marine drugs.
10.	Give an account of Lipid- containing drugs with examples.
11.	Write about natural enzymes obtained from animals
12.	Define Pharmacognosy. Give its historical development.
13.	Write a note on applications of PTC.

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

Section- A**(10 X 2 = 20)**

1.	Give a very short answers to the followings:
i.	Define pharmacognosy. Who coined the term "pharmacognosy"?
ii.	Define flavone and flavanone.
iii.	What are crude drugs? Give their types.
iv.	Write the complete biological source of cotton.
v.	What do you mean by a mutagen? Give an example.
vi.	Write the differences between gum and mucilage.
vii.	Define callus culture.
viii.	What is the meaning of "Ayurveda"?
ix.	Define teratogens and give any one example of a plant teratogen.
x.	What are cardiac glycosides?

Section- B**(2 X 10 = 20)**

2.	What do you mean by cultivation? Discuss various factors affecting cultivation.
3.	What is adulteration? Write its types with examples. How can adulteration be detected by chemical evaluation?
4.	Write short note on: a) Alkaloids and its classification b) Applications of Plant Tissue Culture

Section- C**(7 X 5 = 35)**

5.	What do you understand by conservation of medicinal plants?
6.	How can you classify crude drugs by morphological classification?
7.	Write a detailed note on "honey."
8.	Give various examples of anticancer and anti-inflammatory marine drugs.
9.	Give the basic concept of edible vaccines.
10.	Write about the source, preparation, storage, and commercial utility of gelatin protein.
11.	Write about the homeopathy system of medicine.
12.	Classify tannins with examples.
13.	Write a short note on hybridization in plants.

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

Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	What are chemical tests to identify presence of alkaloids in plant extract?
ii.	Give botanical source and uses of chalmogra oil.
iii.	Define polyploidy.
iv.	Distinguish between primary and secondary metabolites.
v.	Define stomatal number and stomatal index.
vi.	Give differences between organized and unorganized drugs.
vii.	What are natural teratogens? Give two examples.
viii.	Define Pharmacognosy.
ix.	What is the role of auxins in plant growth?
x.	Give two examples of anticancer marine drugs with their botanical sources.

Section- B (2X10=20)

2.	Explain in detail various factors affecting cultivation.
3.	What are various ways of classification of medicinal plants?
4.	Write definition, classification, properties and test for identification of tannins.

Section- C (7X5=35)

5.	Construct a brief note on edible vaccines.
6.	Explain with two examples enzymes obtained from plant source.
7.	Give a detailed account of ayurvedic system of medicine.
8.	What are various types of cultures in PTC along with their nutritional requirements?
9.	Define adulteration. Give various ways of adulteration?
10.	Write a note on conservation of medicinal plants
11.	Write a note on natural fibres.
12.	Explain various sources of crude drugs.
13.	Explain in detail about chinese system of medicine.

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***Section- C consists of nine questions, each carrying 5 marks (Short Answer Type); Attempt any seven.

Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Name any two tests for the identification of cardiac glycosides.
ii.	What are primary and secondary metabolites?
iii.	What are leaf constants?
iv.	Define flavonoids.
v.	Write the biological source and uses of castor oil.
vi.	Write the biological source and uses of Acacia.
vii.	What are plant hormones?
viii.	Define adulteration.
ix.	Write any one difference between the chemical nature of fixed oils and volatile oils.
x.	Define hybridization.

Section- B (2X10=20)

2.	Describe in detail the requirements and applications of plant tissue culture.
3.	Explain the physical methods of evaluation of crude drugs.
4.	Write informative notes on: (a) Edible Vaccine (b) Role of Pharmacognosy in Ayurveda

Section- C (7X5=35)

5.	Write the role of pharmacognosy in the traditional system of medicine.
6.	Provide a brief overview of natural allergens.
7.	Illustrate the chemo-taxonomical classification of crude drugs.
8.	Outline the various tests used for the identification of alkaloids.
9.	Present a short note on novel medicinal agents from marine sources.
10.	Analyze how polyploidy and hybridization contribute to the improvement of medicinal plants.
11.	Mention the sources, methods of preparation, and uses of pepsin.
12.	Summarize the sources and uses of cotton and jute fibres.
13.	Review some important methods available to control pests.

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Section- A (10X2=20)

1.	Give very short answers to the followings:
i.	Define micropropagation.
ii.	Write the principle of unani system of medicine.
iii.	Give biological source of a drug containing carbohydrate.
iv.	What are hallucinogen plants? Give examples.
v.	Define polyploidy.
vi.	What are biofertilizers?
vii.	Define stomatal index.
viii.	What is chemotaxonomic classification?
ix.	Define glycosides.
x.	What is the difference between organised and un-organised drug?

Section- B (2X10=20)

2.	What is drug evaluation? Discuss briefly various methods of drug evaluation.
3.	What is plant tissue cultue? Discuss types of cultures.
4.	Wite a detailed note on novel drugs of marine origin.

Section- C (7X5=35)

5.	Define Pharmacognosy. Discuss briefly its development.
6.	Write a note on ayurveda system of medicine.
7.	Give biological source, main chemical constituents and uses of castor oil.
8.	Write a short note on drug adulteration.
9.	Discuss briefly volatile oils.
10.	Write a note on nutritional requirements of plant tissue culture.
11.	What are plant hormones? Give their role in plant growth.
12.	Write a note on natural allergens.
13.	Give an account of cotton fibre.

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