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Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Pharmacy
End Sem Examination May-2024
PY3CO25 Herbal Drug Technology

Programme: B. Pharma

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1
- Define herb and herbal drug preparation. 2
 - Name any two ayurvedic preparations. 2
 - Mention the constituents and uses of Ephedra. 2
 - Write the biological source of Chicory. 2
 - Give any two examples of herbal colorants. 2
 - Name any two herbal bleaching agents. 2
 - Define patent with example. 2
 - Discuss Breeder's Right. 2
 - Name the consolidated components of GMP. 2
 - Write down the objectives of GMP in Indian systems of medicine. 2

- Q.2
- Attempt any two:
- Explain various sources of herbs with selection, identification and processing of herbal raw materials. 10
 - Classify nutraceutical and discuss the role of nutraceuticals in various disease. 10
 - Discuss the good agricultural practices in cultivation of medicinal plants. 5
 - Describe the possible side effects and interactions of Ginkgo biloba and kava-kava. 5

- Q.3
- Attempt any seven: Two questions from each section is compulsory.

Section - A

- Discuss any five excipients used in herbal with examples. 5

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- Write a detailed note on formulation and applications of phytosomes. 5
- Explain the sources and raw materials used in hair care products. 5

Section - B

- Write down the WHO guidelines for the assessment of herbal drugs. 5
- Discuss about patenting aspects of traditional knowledge using case study of Neem. 5
- Describe the framework and roles of consultative committee and DTAB of ASU. 5

Section - C

- Discuss the present scope and future prospects of Herbal drugs industry. 5
- Explain various components of GMP for Indian systems of medicine. 5
- Write a note on institutions and industries involved in work on medicinal and aromatic plants in India. 5

Marking Scheme

Herbal Drug Technology PY3CO25

Q.1	i)	- Definition of herb	1
		- Definition of herbal drug preparation	1
	ii)	- Any two ayurvedic preparations	1 mark each
	iii)	- Constituents of Ephedra	1
		- Uses of Ephedra	1
	iv)	- Biological source of Chicory	2
	v)	- Two examples of herbal colorants	1 mark each
	vi)	- Two herbal bleaching agents	1 mark each
	vii)	- Definition of patent	1
		- Example	1
	viii)	- Breeder's Right	2
	ix)	- Consolidated components of GMP	2
	x)	- Objectives of GMP	2

Q.2	Attempt any two:		
	i.	- Sources of herbs	2
		- Selection	1
		- Identification	2
		- Processing of herbal material	5
	ii.	- Define	1
		- Classification of nutraceutical	5
		- Role of nutraceuticals in various disease	4
	iii.	- Objective	1
		- Description of good agricultural practices	4
		- Side effects and interactions of Ginko biloba	2.5
		- Side effects and interactions of kava-kava	2.5

Q.3	Attempt any seven: Two questions from each section is compulsory.		
	Section – A		

i.	- Any 5 excipients with examples.	1 mark each
ii.	- Define/ Advantage	1
	- Formulation	2
	- Applications of phytosomes	2
iii.	- Sources and raw materials used in hair care products	5

Section – B

iv.	- WHO guidelines for the assessment of herbal drugs.	5
v.	- Traditional knowledge	2
	- Case study of Neem.	3
vi.	- Framework and roles of consultative committee	2.5
	- Framework and roles of DTAB	2.5

Section - C

vii.	- Present scope	5
	- Future prospects Herbal drugs industry	
viii.	- Components of GMP for Indian systems of medicine	5
ix.	- Institutions and Industries involved in work on medicinal and aromatic plants in India	5
