Model Question Paper ER 20-13T Diploma in Pharmacy 1st year Subject: Pharmacognosy (Theory)

Time: 3 hrs. Full Marks: 80

Note: Give example and draw diagram wherever necessary

I.

A	\ns	wer the following questions:	20×1=20
1)	An	nswer in one sentence:	10×1=10
	a)	Define Pharmacognosy .	
		State which part of the plant is used in case of (i) Belladonna (ii) Rauwolfia	
	c)	Write example of pharmaceutical aid obtained from: (i) Animal source (ii) M source.	ineral
	d)	Mention synonym of the following crude drug: (i) Asafoetida (ii) Liquorice	
	e)	Give the name of the drug which passes the following chemical test. (i) Vital: (ii) Swelling factor test	i-Morin test
	f)	Name the drug having following microscopical characters (any two) (i) Ligni trichomes (ii) Fibrovascular bundle (iii) Paracytic stomata.	fied
	g)	Write the name of the drug which has following use: (i) Dental analgesic (iii)	Brain tonic
	_	Define Palisade ratio.	Bruin toine
	i)	Write the biological source of Digitalis.	
	j)	Define Nutraceuticals.	
2)	An	nswers all the questions:	5×1=5
	a)	Name of the drug which contain oleo gum resin?	
	b)	i) garlic ii) ginger iii) myrrh iv) nux vomica Which part of the Plant is used as a drug in Cardamom?	
	D)	i) Dried flowering tops ii) Dried roots iii) Dried sclerotium iv) Dried ripe from the	nita
		and seeds	iits
	۵)		
	C)	Characteristic features of Umbelliferous fruits-	
		i) two mericarp join together by a thread like structure called as carpo	nhores
		ii) primary ridges are 5 or more runs from apex to base	phores
		iii) all umbelliferous fruits contain volatile oil	
		iv) all of the above	
	d)	Name of the drug which contain reserpine- i) Rauwolfia ii) Gokhru iii) Fenne	l iv)
	u)	Acacia	111)
	e)	Fractured surface of the drug, if treated with sulphuric acid, forms redor redd	ish-brown
	C)	colour. The drug should be-	ish brown
		i) Asafoetida ii) gelatin iii) turmeric iv) rhubarb	
		1) Asaroettaa 11) geraan 111) tarmene 14) Maoaro	
3)	An	nswers all the questions:	5×1=5
	a)	is found to contain ferulic acid.	
	b)	drug is obtained from definite anatomic parts of the plants such as	flowers,
	,	leaves, fruits etc.	,
	c)	coined the term 'Pharmacognosy'.	
	,		

d)	oil is evaporated at room temperature.
e)	consists of peeled and dried rhizomes and roots of <i>Rheum officinale</i> , family
	Polygonaceae.

II. Short answer type questions (Answer any 10 out of 11):

 $10 \times 3 = 30$

- a) Explain chemical method of classification of crude drug with its merit and demerit
- **b**) Define Glycosides. Classify it on the basis of Glycosidic linkage with example.
- c) Write the synonyms, biological source, chemical constituents of 'Gokhru' OR 'Gymnema'.
- **d)** Write the method of cultivation and collection of 'Rauwolfia'.
- e) Explain with example (any two)
 - (i) Stomatal Index (ii) Optical rotation (iii) Organoleptic method of evaluation.
- f) Describe the different techniques (any three) for isolation of volatile oils.
- **g**) Draw a well labeled diagram of T. S of cinnamon bark and describe any four miscropcopical characters.
- **h)** Write the chemical constituents and uses of the following drug- (any two)
 - (i) Cinchona (ii) Sandalwood oil (iii) Ephedra
- i) Explain with example of the following: (any two)
 - (i) Probiotics (ii) Condensed tannin (iii) Characteristics of umbelliferous fruit.
- j) Explain the general chemical test for the identification of alkaloids.
- **k)** Enlist the Indigenous system of medicine. Describe the 'Siddha system of medicine'.

III. Long answer type questions (Answer any 6 out of 7):

 $6 \times 5 = 30$

- a) Define Enzymes. Write the biological source, chemical constituents and uses of 'Papaya'.
 1+4
- b) Define 'Drug Adulteration'. Describe any three methods of adulteration with suitable example. 1+4
- c) Describe the method of preparation of fibre obtained from plant source.
- **d)** 1) Define the following with example. (i) Oxytocics (ii) Cardiotonics (iii) Antitussive (iv)Astringents.
 - 2) Differentiate between organized and unorganized crude drug.

2+3

e) Explain the chemical tests of **any FIVE** crude drugs:

- 5×1
- i) Datura ii) Benzoin iii) Nux- Vomica iv) Shark liver oil v) Glatin vi) Starch
- f) 1) Write examples of drug belonging to following family- (i) Rubiaceae
 - (ii) Apocynaceae (iii) Burseraceae (iv) Liliaceae
 - 2) Write official requirements of surgical dressings.
 - 3) Describe morphological characters of clove with diagram.

2+1.5+1.5

NAME OF THE SUBJECT TEACHER: BHASKAR GHOSH PH. NO: 9475228311