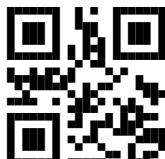


24225

03 Hours / 80 Marks



Seat No.

20113

Instructions –

- (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1.	Attempt any <u>SIX</u> of the following:	30
a)	Explain antioxidants with two therapeutic applications. Illustrate biological source, chemical constituents and pharmacological usefulness of Garlic.	
b)	Explain classification of crude drugs on the basis of chemical nature with its two merits and demerits.	
c)	Give biological source, chemical constituents, and method of preparation of Absorbent cotton.	
d)	Define volatile oil and explain different extraction methods for the same.	
e)	Illustrate the role of extractive soluble value in extraction and ash content in a crude drug evaluation.	
f)	Define and classify pharmaceutical aids with examples.	
g)	Give biological source, chemical constituents, therapeutic uses, cosmetic benefits and commercial preparations of sandal wood oil.	
2.	Attempt any <u>TEN</u> of the following :	30
a)	Give chemical constituents and uses of –	
i)	Nutmeg	ii) Cinnamon
b)	Mention source and therapeutic benefits of Omega-3-fatty acids.	
c)	Explain the principle of Ayurveda.	
d)	Illustrate different steps involved in preparation of Herbal formulation.	
e)	Explain Ash content and extractive soluble value.	
f)	Explain different methods of crude drug Adulteration.	
g)	Define Asava and write the method of preparation of Asava.	
h)	Explain the export potential of Aromatic and Medicinal plants.	
i)	Give the name of chemical test used to detect the presence of Cardiac Glycoside and explain it.	
j)	Define Antitussives with examples and give biological source, chemical constituents and uses of any one drug.	
k)	Explain systematic investigation of plants material for its Phytochemical study.	



20

3. Attempt ALL of the following :