	Chapter 1	
	Define Pharmacognosy	02
	Define Pharmacognosy and who coined term Pharmacognosy	02
	Explain the various scopes of Pharmacognosy.	05
	Write in detail about the history of Pharmacognosy.	05
	Chapter 2	
	Explain the taxonomical features of plants belongs to Umbelliferae/solanaceae/ Leguminosae/Liliaceae family along with suitable examples	05
	Write the name, biological source and uses of plants belongs leguminosae family	02
	Medicinal importance of plants belongs to Solanaceae family	02
	Chapter 3	
	Classify the crude drugs based on alphabetical method of classification	02
	Differentiate organised and unorganised drugs with suitable examples	02
	Write in brief about chemotaxonomy	02
	Write about various parameters considered in chemotaxonomical classification	02
	Classify crude drugs based on their chemical/pharmacological nature along with suitable examples	05
	Explain in detail about chemotaxonomical classification	05
	Discuss about various methods of classification of crude drugs along with their merits and demerits	10
	Classify crude drugs based on their chemical and pharmacological/taxonomical/morphological nature along with suitable examples	10
	Define organised/unorganised drugs along with suitable examples	02
	Chapter 4	
	Define cultivation and enlist various methods of cultivation	02
	Define cultivation and list out various advantages of cultivation	02
	Write in brief about various methods of conservation of medicinal plants	02
	Write about various methods of drying of crude drugs	02
	Define garbling and drying of crude drugs	02
	Write about various methods of collection of barks	02
	Write in brief about bio fertilisers	02
	Write about mechanical/chemical/biological/agricultural method of pest control	02
	Write about storage of any four crude drugs	02
	List out the names of various plant hormones	02
	Discuss in detail about conservation of medicinal plants	02
	List out the names of some plant hormones	02
	Define the term garbling, coppicing and felling	02
	Write the method of production of Opium	02
	Explain in detail about different time of collection and method of harvesting of crude drugs	05
	Explain storage of crude drugs	05
	Define pest and discuss about various methods used for pest control	05
	What is soil fertility? Explain various types of soils and technique used to improve the fertility of the soil.	05
	Explain the detail method of cultivation of Opium/Senna/Isapgol/Cinchona/Clove	05

	Define cultivation and explain about various factors affecting cultivation	10
	Define cultivation and explain about method cultivation of opium, cinchona/clove, Isapgol/Senna (**any two crude drugs**)	10
	Chapter 5	
	Define pesticides and give some examples of natural pesticides	02
	Name two natural pesticides and list some advantages of natural pesticides	02
	Mention about various mechanisms by natural pesticides acts	02
	Write the biological source, chemical constituents and uses of any one natural pesticide (Tobacco/Neem/Pyrethrum)	02
	List out the advantages and disadvantages of natural pesticides	02
	Discuss in detail about insect flower as a natural pesticide	05
	Discuss in detail about pyrethrum/ neem and tobacco as natural pesticide	05
	Chapter 6	
	Define adulteration, sophistication and deterioration (**any two term**)	02
	List out various reasons behind adulteration of crude drugs	02
	Explain various methods of adulteration of crude drugs along with suitable examples	05
	Chapter 7	
	Define primary and secondary metabolites by giving suitable examples	02
	List the various cell wall components of the plant	02
	List out primary and secondary metabolites with suitable examples	02
	Define any two secondary metabolites and give some examples	02
	List the various cell wall components of the plant	02
	Define ergastic cell inclusions and list out some of them	02
	Chemical tests for the identification of lignin and mucilage	02
	Explain various cell wall components and reagents used to identify of each of them	05
	Write in detail about various plant constituents and cell wall components	05
	Chapter 8	
	List out various chemical reagent used in chemomicroscopy	02
	Write the BS, CC and uses of a crude drug which contain sclereid/stone cell layer or plasmodesmata or lignified trichome or paraquetry arrangements or both glandular and covering trichome	02
	Write the BS, CC and uses of a crude drug belong to fruit/flower/stem/bark/root/rhizome/leaf/wood/seed category	02
	List out the general characters found in the transverse section of fruit/bark/leaf/seed/root	02
	Give the BS, CC and uses of a crude drug used in the treatment of asthma, hypertension, carminative	02
	Define stomata and write its functions	02
	Give the BS, CC and use of the drug which is cremocarpus in nature	02
	Name the drug which contain vittae and give its biological source and uses	02
	Name and give biological source of wood drug containing bitter principle	02
	General microscopical characters of bark	02

	Discuss the morphology and microscopy of Datura/Cinnamon/Ginger/Ephedra/ Rauwolfia/Quassia/Clove/Fennel/Nux-Vomica with a neat labelled diagram (**any one drug**)	05
	Write in detail the microscopy of Umbelliferous fruit with a neat labelled diagram	05
	Discuss the morphology and microscopy of Datura/Cinnamon/Ginger/Ephedra/ Rauwolfia/Quassia/Clove/Fennel/Nux-Vomica with a neat labelled diagram (**any two drugs**)	10
	Chapter 9	
	Define carbohydrates and give some examples of crude drugs belongs to carbohydrates	02
	Define gums and mucilages and give suitable examples	02
	Write the BS, CC and uses of a crude drug used as bulk laxative	02
	Write the BS, CC and uses of honey/Isapgol/guar gum/acacia/agar/tragacanth/ pectin/sterculia gum	02
	Write the BS and chemical nature of Tragacanth and Sterculia gum	02
	Write the tests used in the identification of mucilage in the plant	02
	Explain the chemical test used to identify the adulterant in honey	02
	Write the BS, CC and uses of drug containing invert sugar	02
	Write the chemical test for the identification of sulphonated compounds present in Agar	02
	Define swelling factor/index and write the name of the drug studied by this method	02
	Explain Fiehe's test	02
	Write the chemical tests used to differentiate agar from acacia or tragacanth (any two)	05
	Write the source, method of production, chemical constituents and uses of crude drug obtained from Red algae	05
	Write in detail about the BS, CC, uses, chemical tests and method of production of honey/pectin/ agar/	05
	Chapter 10	
	Define lipids and give two examples for fats/oil/wax	02
	What are fats, oils and wax? Give suitable examples for each	02
	List out the methods used for refining of oils	02
	Write the BS, CC and uses of each lipid drug	02
	Write the BS and CC of the drug used as an antileprotic	02
	Write the BS, constituents and uses of crude drug containing ricinoleic acid	02
	Explain the production of woolfat/bees wax/cod liver oil/kokum butter	02
	Write the BS, CC, production and uses of Bees wax	02
	Write the BS and uses of Vitamin D containing oil	02
	Define lipids. Write the BS, CC, production and uses of chaulmoogra oil	05
	What are lipids? Explain in detail about the BS, CC, production and uses of chaulmoogra oil and castor oil	10
	Chapter 11	
	Define resins and give some examples	02
	Define balsams and resens	02
	Define balsams and give suitable examples	02
	List out general properties of resins	02

	Explain the chemical tests used to differentiate Siam benzoin from Sumatra benzoin	02
	Give the BS, CC and uses of oleo resin drug	02
	Explain the principle involved in combined umbelliferone test and its significance	02
	Write the BS, CC and uses of Myrrh, Benzoin, Asafoetida, Ginger and Podophyllum (any one)	02
	Give the BS, CC and uses of resin containing drug used in the treatment of cancer	02
	Write the chemical test used for the identification of Benzoin and Asafoetida	05
	Define resins. Write their properties and classify them with suitable examples	05
	Chapter 12	
	Define fibres and give some examples for plant and animal fibres	02
	Write the identification tests for Cotton	02
	Write the BS, CC and uses of a cotton/hemp/jute/wool/silk	02
	Define the term Retting in the production of plant fibres	02
	Write the tests used to differentiate plant and animal fibres	02
	Discuss in detail about BS, CC, uses and production of absorbent cotton along with identification tests	05
	Write the source, method production, chemical constituents and uses of Jute	05
	Discuss in detail about BS, CC, uses and method of production of Jute/Hemp/Silk /Wool (any two)	05
	Define fibre and classify them with suitable examples. Explain the method of production of absorbent cotton	05