N.B:	Duration: 3 hr Total marks: 75 1. All questions are compulsory 2. Figures to right indicate full marks 3. Draw structure where ever necessary
Q. 1	Choose the appropriate option for following multiple choice-based questions.
1	Modern method of Drug identification is
a	Macroscopy
b	Microscopy
c	DNA fingerprinting
d	Chemical tests
2	is an undesired plant, it can produce losses more than any
	other pests or disease.
a	Fungi
b	Viruse S S S S S S S S S S S S S S S S S S S
c	Weed S S S S S S S S S S S S S S S S S S
d	Azotobacter
3	Which is not an evaluation parameter of Syrup.
a	Viscosity
b	Microscopical evaluation
c	Reducing sugar
d	PH SS AN SS SS
4	Name the preparation known as Herbo mineral preparation.
a	Asava
b	Vati
c	Gutika Company
d	Bhasmas
5	Azadirachtin is used as a
a	Bioherbicide
b	Insect hormone
c	Natural insecticide
d	Natural herbicide

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6	Name the nutraceutical used as phytoestrogen in menopausal symptoms.
a	Catechu
b	Alfalfa
c	Chicory
d	Spirulina
7	Name the plant drug which is used as caffeine-free coffee.
a	Fenugreek
b	Alfalfa & Alfalfa
c	Chicory
d	Ashwagandha
8	Which plant drug decreases the efficacy of metformin.
a	Alfalfa
b	Ephedra
c	Ginseng
d	Kava Kava
9	Which gum is reported for colon targeted drug delivery systems.
a	Aloe vera
b	Guar gum
c	Xanthan gum
d	Pectin P P P
10	Which non-ionic cellulose derivative is water soluble?
a	HPMC S
b	MCC
c	CMC
d	Ethyl cellulose
11	Coconut oil containssaturated fatty acid as a chief constituent.
a	Lauric acid
b	Oleic acid
c	Linoleic acid
d	Linolenic acid
12	Bixin is used as
a	Colorant
b	Binder
c	Sweetener
d	Emulsifying agent

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13	is used in oral hygiene.
a	Meswak
b	Momordica
c	Nuxvomica
d	Morphine
14	Bioprospecting is
a	Patenting naturally occurring substance
b	Search for useful products derived from bioresources including plants
c	Patenting the traditional knowledge
d	Isolation of Phytopharmaceuticals
15	Name the constituent which is used as natural sweetener
a	Stevioside & Rubidoside
b	Guar gum
c d	HPMC CMC
u	ST ST ST ST ST
16	Name the parameter which access the safety of herbal drugs
a	Alcohol soluble extractive
b	Percentage of Aflatoxin
c	Water soluble extractive
d	Foaming Index
17	Which schedule is proposed for clinical study of ASU Drugs
a	Schedule Z
b	Schedule T
c	Schedule M
d	Schedule I
18	Machinery required for manufacturing of medicines comes under
a	Part 1
b	Part II
c	Both State of the
d	None
19	Name the research institute which is funded by Government of India
a	Zandu
b	Patanjali
c	Dabur
d	Indian Institute of Integrative Medicine

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20	Name the instrument used for heavy metal analysis	
a	Atomic absorption spectroscopy	
b	Thin layer chromatography	
c	UV spectroscopy	
d	Gas chromatography	
		20
Q-2	Answer any Two Define herb and herbal medicinal products. Explain any one modern tools for	20 5
1a	authentication of plants with examples.	3
1 h	Discuss any two nutraceuticals for cancer with marketed formulation.	5
1b	Discuss the importance of herbal raw material in cosmetics. Discuss sources and	10
•	mechanism of action of herbal raw materials in preparation of skin care (Four	10
2	examples).	
	Define Patent, Biopiracy, Farmers right and breeders right, Discuss case study of	10
3	Neem and Curcumin	
•		
Q-3	Answer any seven.	35
1	Write note on organic Farming	5
	Define Asava and Arishta, Explain method of preparation and standardization	5
2	of Aristha	
3	Discuss following herbs as health food 1) Fenugreek 2) Spirulina	5
4	Describe different types of herb drug interaction. Give the herb drug interaction	5
	of Hypericum and Kava Kava.	
5	Discuss plant based disintegrating agent and viscosity builder as pharmaceutical	5
	excipients in herbal formulations.	
6	Give the difference between Liposome & Phytosome. Enlist evaluation	5
	parameters of Phytosome and discuss advantages and application of phytosome	
	with marketed formulation.	
7	Give the full form of DTAB ASU and DCC ASU. Explain composition and	5
_	functions of DTAB ASU in detail.	
8	Outline the component of schedule T and its objective.	5
9	Discuss current & future prospects of the herbal drug industry. Discuss any two	5
	Herbal Industries with its marketed products.	
