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			НЕ	ERBAL	DRU	JG TI	ECH	NOL	OGY ((TE	IEOR	Y)			
				(Ne	w Reg	gulat	ion (v	v.e.f.	2017-2	201	8)				
Full	Mar	ks – 75	5									Tir	ne –	Three	e hours
			Т	he figu			nargi e que			full	mark	S			
			Ans	swer qu	estion	ı No.	1 and	l any	six fro	m	the re	est.			
						1	PART	A							
	Mul	ltiple cl	hoice q	uestion	s:										
1.	Choose the correct answer from the following: $(20 \times 1 = 2)$								1 = 20)						
	(i)	Which	h of the	follow	ing is	a her	bomi	neral	prepa	ara	tion?				
		(a) \	Vati												
		(b) I	Bhasma	a											
			Lehya		*										
		(d) (Ghutik	a											
	(ii) In Siddha system of medicine, predominant Vata is of the following?							is ch	arac	teriz	zed by	which			
		(a) S	Stout, b	lack, co	ool an	d ina	ctive	perso	naliti	es					
				hitish,											
				ild, goo		plexi	oned	body	and w	vell	beha	ved p	erso	naliti	es
	21.11			the ab											
	(iii) In Homeopathic system of medicine, the center which of the following letter?								esi	mal p	oteno	ey is	deno	ted by	
		(a) I	Letter	'A'					-						
		3 2	Letter "												11.
			Letter '												
		(d) L	Letter '	Ρ'											

[Turn over

(iv)	Which of the following is used to determine the specific gravity of alcohontent in samples?					
	(a)	Clevenger				
	(b)	Pyknometer				
	(c)	Kjeldahl				
	(d)	None of the above				
(v)	Whi	ch of the following is applicable for authentication of herbal materials?				
	(a)	Taxonomic method				
	(b)	Chromatographic methods				
	(c)	DNA fingerprinting techniques				
	(d)	All of the above				
(vi)		ch of the following coenzyme is commonly used to regulate the insulin hesis in diabetes?				
	(a)	Coenzyme A				
	(b)	Coenzyme B				
	(c)	Coenzyme Q10				
	(d)	None of the above				
(vii)		ch of the following nutraceutical substance is useful to reduce the esterol and triglyceride level?				
	(a)	Palmitic acid				
	(b)	Stearic acid				
	(c)	Oleic acid				
	(d)	Omega-3-fatty acid				
(viii) Which of the following plant is 'Alfalfa'?						
	(a)	Medicago sativa				
	(b)	Cichorium intybus				
	(c)	Trigonella foenum-graecum				
	(d)	Emblica officinalis				

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	(ix)	Whi	ich of the following nutraceut	cal is commonly	known as 'Indian						
	()	Gingseng'?									
		(a)	Fenugreek	Pina Chay	wdhury Central Library						
		(b)	Ashwagandha	a Chowdhury University apara, Azara, Ghy-17							
		(c)	Spirulina	Hairiow							
		(d)	Alfaalfa								
	(x)	Phytosomes is an advanced drug delivery system composed of natural active ingredients along with which of the following?									
		(a)	(a) Phospholipids								
		(b)	Fats and oils								
		(c)	Carbohydrates								
		(d)	(d) Triglycerides								
	(xi)	The active constituents (natural dye) responsible for the golden colour of Saffron is———									
		(a)	Indigo								
		(b)	α -crocin								
		(c)	Lawsone								
		(d)	Curcumin								
	(xii)	Which of the following is a commonly used natural diluent?									
		(a)	Glucose								
		(b)	Fructose								
		(c)	Lactose								
		(d)	Ribose								
'	(xiii) The antioxidant property of 'Amla' fruits is due to which of the follow phytoconstituents?										
		(a)	Vitamin A								
		(b)	Vitamin B								
		(c)	Vitamin C								
		(d)	Vitamin K								
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(xiv)	Foan	ning index indicates the determination of ————						
	(a)	Inorganic substances						
	(b)	Alkaloids						
	(c)	Carbohydrates						
	(d)	Saponins						
(xv)	Which of the following guidelines is/are used for assessing the que control of herbal drugs?							
	(a)	WHO guidelines						
	(b)	ICH guidelines						
	(c)	EU guidelines						
	(d)	All of the above						
(xvi)	Whi	ch of the following is an Intellectual Property Rights?						
	(a)	Patent						
	(b)	Trademark						
	(c)	Copyright						
	(d)	All of the above						
(xvi	i) As	per the WHO guidelines, which of the following is a physico-chemical						
	par	ameter used to evaluate herbal drugs?						
	(a)	Evaluation for morphological characters						
	(b)	Evaluation for microscopical characters						
	(c)	Evaluation for Ash Value						
	(d)	None of the above						
(xvi	iii)For the stability testing of drugs, 'temperate climate' falls under which the following Zone?							
	(a)	Zone-I						
	(b)	Zone-II						
	(c)	Zone-III						
	(d)	Zone-IV						

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	(a) Director General of Health Services	
	(b) Director, Central Drug Research Institute	
	(c) Director, Central Council for Research in Ayurvedic Sciences	
	(d) Director, National Botanical Research Institute	
	(xx) What is the full abbreviated form of 'ICH'?	
	(a) Internal Central for Harmonization Bina Chowdhury Control Girijananda Chowdhury	
	(b) International Council for Harmonization Hatkhowanara A	A CHARLES OF THE PARTY OF THE P
	(c) Indian Council for Harmonization	
	(d) None of the above	
	PART B	
	Answer the following questions (any seven): (7)	(5 = 35)
2.	Write a note on organic farming with suitable examples.	(5)
3.	Give the possible herb-drug interaction arising from hypericum, kava-k	ava and
	gingseng.	(5)
4.	Define nutraceuticals and explain in details the health benefits of nutrac	ceuticals
	in the management of diabetes.	(5)
5.	Define bio-pesticide and describe the different steps involved to control	pest in
	medicinal plants.	(1+4)
6.	Give a concept note on herbal cosmetics with examples.	(5)
7.	Write a brief note on the plant based industries and institutions involve development of products from medicinal and aromatic plants in	
8.	Describe the constitution and functions of ASU-DTAB.	(5)
9.	Define polyherbal formulations. Write a brief note on the prepara	ation of (5)
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(xix) Who among the following is the chairman of ASU-DTAB?

10. Write a short note on any one of the following:

(5)

- (a) Schedule Z of drugs and cosmetic act for ASU drugs.
- (b) Schedule T with components of GMP for herbal medicine.

PART C

Answer the following questions (any two):

 $(2 \times 10 = 20)$

- 11. Define biopiracy and breeder's right. Explain in detail the concept of biopiracy taking into account the case study of curcuma. (2+8)
- 12. Explain systematically in details the parameters for the evaluation and assessment of herbal drugs as per ICH guidelines. (10)
- 13. Define tridosha and rasa-guna. Explain in detail the basic principles involved in Ayurveda and Homeopathy. Describe the preparation and standardization of Arista.

 (2+4+4)

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