BP 806 ET

Roll No. of candidate		Bina Chowdhury Central Library
	2024	Girijananda Chowdhury University Hatkhowapara Azara Ghy 17

B.Pharm. 8th Semester (Regular) End-Term Examination

QUALITY CONTROL AND STANDARDIZATION OF HERBALS (THEORY)

New Regulation (w.e.f. 2017-2018)

Full Marks - 75

Time - Three hours

		Tł	ne figures in the margin indi	cate full	marks for the questions.	
			PA	RT – A		
1.	Ans	wer t	the following (MCQ/ Fill in t	he blank	(20 × 1 = 20)	
	(i)	Wh	e basic test for fixed oil and fats?			
		(a)	Ruthenium red	(b)	Indigo blue	
		(c)	Methyl orange	(d)	None of the above	
	(ii)	Which of the following test is used for the identification of steroids?				
		(a)	Benedict test	(b)	Baljet test	
	7	(c)	Salkowski test	(d)	Shinoda test	
	(iii)	In cGMP the letter 'c' stands for				
		(a)	Current	(b)	Control	
		(c)	Common	(d)	Centre	
	(iv)	The optimal storage condition for fresh Herbal material is				
		(a)	0°C to 8°C	(b)	2°C to 8°C	
17.		(c)	2°C to 15°C	(d)	10°C to 15°C	
(1	(v)	Disposal of waste in herbal drug industry should be as per the guidelines of				
		(a)	ICR guidelines	(b)	WHO guidelines	
		(c)	OECD guidelines	(d)	Pollution Control Board [Turn over	

	(vi)	EMA	A stands for which of the foll	owing o	options?		
		(a)	European Medicine Agency				
		(b)	European Medicine Author	ity			
		(c)	European Medicine Activity	y			
		(d)	European Medicine Associa	tion			
	(vii)	The state of the s	per WHO guidelines, the act	ute toxi	city studies is conducted for a period		
		(a)	Up to 14 days	(b)	Up to 2 months		
		(c)	Up to 6 months	(d)	None of the above		
	(viii)				netic Act (1940) lays down the GMP nufacturing of herbal medicine'?		
		(a)	Schedule Y	(b)	Schedule M		
		(c)	Schedule T	(d)	Schedule X		
(ix) A new active medicinal ingredient that requires E which directive?				t requires EU regulations falls under			
		(a)	2001/83/EC	(b)	2002/83/EC		
		(c)	2004/24/EC	(d)	None of the above		
	(x)	The	full form of EFSA is				
		(a)	1 10 10 10 10 10 10 10 10 10 10 10 10 10				
		(b)	European Food Safety Authority		Bina Chowdhury Central Library Girijananda Chowdhury University Girijananda Azara, Ghy 17		
		(c)	European Food Safety Age	ncy	Girijananda Chowdnury Girijananda Chowdnury Hatkhowapara, Azara, Ghy 17		
		(d)	None of the above				
	(xi)		rbal medicine of uncertain delines for assessment for sa	1000	falls under which category of WHO herbal medicines?		
		(a)	Category - I	(b)	Category – II		
		(c)	Category - III	(d)	Category – IV		
	(xii)		ich of the following OECD g city based on a 'Fixed dose p		es is applicable for testing acute oral re' in animals?		
		(a)	OECD guideline no. 420	(b)	OECD guideline no. 423		
		(c)	OECD guideline no. 425	(d)	OECD guideline no. 434		
	(xiii)		ich of the following form is ananufacture a new drug'?	applied	for the 'Issue of permission to import		
		(a)	Form 41	(b)	Form 42		
		(c)	Form 43	(d)	Form 44		

(xiv) Components of GMP include whi	hich of the following options?					
(a) Design and construction of the industry						
(b) Quality control	Quality control					
(c) Training of personnel's						
(d) All of the above						
(xv) Under which rule a 'No Objection Certificate for export of drugs from India' is applied to be issued by the Ministry of Health and Family Welfare for export purpose?						
(a) Rule 94	(b) Rule 95					
(c) Rule 96	(d) Rule 97					
(xvi) In India, who among the following issued the authority to a pharmaceutical company who wish to manufacture/import a new drug?						
(a) Pharmacy Council of India	a ·					
(b) Medical Council of India (c) Director General of Health	Bina Chowdhury Central Library Girijananda Chowdhury University					
	Transcrupata, Azara, Griy-17					
(d) Drugs Controller General o						
	for a Chemical marker of medicinal plants?					
(a) Chemical marker are pure						
(b) Chemical marker are pure	Chemical marker are pure and mixture of constituents					
(c) Chemical marker are pure	and single constituents					
(d) None of the above						
(xviii) The 9th Edition of Indian Pharm	rmacopoeia was published in which year?					
(a) 2020	(b) 2021					
(c) 2022	(d) 2023					
(xix) 'Pharmacovigilance' or 'safety surveillance' is involved in which of the following Clinical trials?						
(a) Phase - I	(b) Phase - II					
(c) Phase – III	(d) Phase - IV					
(xx) What is the full abbreviated for	rm of 'ICH'?					
(a) Internal Central for Harmo						
(b) International Council for H						
(c) Indian Council for Harmon	nization					
(d) None of the above						

Ù	Ans	wer the following questions (any seven): $(7 \times 5 = 35)$			
2.	(a)	Discuss in detail the basic testing procedures for drugs giving special emphasis to medicinal plants. (5)			
	(b)	Discuss a brief note on any one of the following: (5)			
		(i) cGMP			
		(ii) GACP.			
	(c)	Discuss in detail the 'AMES test' and its significance. (5)			
	(d)	Explain the different chromatographic techniques incorporated in the standardization of herbal products. (5)			
	(e)	Discuss the detail process for preparation of documents for NDA and export registration. (5)			
	(f)	Discuss the role of chemical markers in standardization of herbal products. (5)			
	(g)	Give a detail comparison on various herbal pharmacopoeias. (5)			
	(h)	Discuss in detail the OECD guidelines for toxicity testing of drugs. (5)			
	(i)	Outline the objectives on WHO basic test for pharmaceutical substances and describe the identity test of viublastine sulphate. PART - Chowdhury Central Library PART - Chinjanana Chowdhury University Hatkhowapara Azara, Ghy-17			
3.	Ans	ewer the following questions (any two): $(2 \times 10 = 20)$			
	(a)	Discuss in details the EU and ICH guidelines for quality control of herbal drugs. (10)			
	(b)	Categorize the various standardization parameters prescribed as per WHO guidelines for herbal drugs and describe in detail the assessment methods of ash values and foaming index. (4+3+3)			
	(c)	Examine and discuss in detail the following guidelines (any one): (10)			
T.		(i) WHO guidelines on safety monitoring of herbal medicines in pharmacovigilance systems.			

(ii) WHO Guidelines on GACP for Medicinal Plants.