2023

B.A./B.Sc. Fourth Semester SKILL ENHANCEMENT COURSE – 2 CHEMISTRY Course Code: CHS 4.11

(Pharmaceutical Chemistry)

Total Mark: 35 Time: 2 hours Pass Mark: 14

Answer two questions taking one from each unit.

UNIT-I

1.	(a) Explain the steps required for modern drugs discovery.	5
	(b) Write short notes on the following:	3×2=6

- (i) Anti-inflammatory agent
- (ii) Anti-bacterial agent
- (iii) Analgesic agent
- (c) Give the preparation, properties and uses of chloramphenicol. $6\frac{1}{2}$
- 2. (a) What are antipyretic agents? How paracetamol is prepared? Give its properties and uses. 2+2+2=6
 - (b) What do you understand by basic approach to retrosynthesis?Explain the symbol involved in retrosynthesis with examples. 3+3=6
 - (c) Write short notes on the following: $2+3\frac{1}{2}=5\frac{1}{2}$
 - (i) Sulphonamides
 - (ii) Sulphacetamides

UNIT-II

3.	(a)	Explain in detail how to synthesize ethanol from ethylene and	
		sulphuric acid.	61/2
	(b)	Write short notes on the following:	2×3=6
		(i) Daizenam	

- (i) Daizepam
- (ii) Glyceryl trinitrate
- (iii) Glutamic acid

(c) Explain the discovery of penicillin and give its properties and uses. 5

(a)	What are antibiotics? What are the required conditions for	a	
	substance to be considered as an antibiotic?	1+3=4	
(b)	What do you understand by vitamins?	21/2	
(c)	Explain vitamin B2 and vitamin B12. Give its deficiency and	d vitamin B12. Give its deficiency and uses.	
		3+3=6	
(d)	Write a short note on <u>any two</u> :	2½×2=5	
	(i) Cephalosporin		
	(b) (c)	 (b) What do you understand by vitamins? (c) Explain vitamin B2 and vitamin B12. Give its deficiency and (d) Write a short note on <i>any two</i>: 	

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(ii) Dapsone

(iii) Streptomycin