

PH-003-001648 Seat No. _____

Third Year B. Sc. (Sem. VI) (CBCS) Examination July - 2018

IC-603: Pharmaceuticals - II & Fundamentals of Chemical Engineering - II

> Faculty Code: 003 Subject Code : 001648

		Subject Code . 001040
Time	e : 2	$\frac{1}{2}$ Hours] [Total Marks : 70
Inst	ructi	 (1) All the questions are compulsory. (2) Figures to the right indicate maximum marks. (3) Draw labelled diagrams wherever necessary. (4) Assume suitable data. (5) Question-1 each question carries 1 mark objective type question. (6) Question-2 & 3 carries 25 marks each.
1	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	Give full form of NIHL. Define the term flash point. What do you mean by the term safety? Define the term Tele-metering. What is meant by hunting? Define the term steady state. Define Elasticity. Enlist any four technological properties. What do you mean by wear resistance? Give check list for Filtration equipment. Therapeutic index is the ratio of C ₂₅ H ₄₀ is the molecular formula for terpenoid. According to W.H.O. hypertension is a state where
	. ,	systolic pressure mm of Hg and diastolic pressure mm of Hg.

- (14) Give one examples of monocyclic terpenoid. (15) Chemical constituents of the plant which is medicinally active known as? (16) Who was known as the father of modern chemotherapy? (17) Give structural formula of isoprene. (18) The sugar residue in glycoside is known as _____ (Glycone/Aglycone) (19) Give one example of cardiovascular drug. (20) Polysaccharide yielding only one variety of monosaccharide is called? (A) Answer any Three: 6 (1) Define: (A) Resistance (B) Conductance. (2)Define: (A) Capacity (B) Error. (3)Write a note on fire triangle. (4)Define: (i) Prosthetic group (ii) Fermentation. (5)Give synthesis of : Aspirin. (6) Define: (i) Alkaloid (ii) Bacteriostatic agent. (B) Answer any Three: 9 Write a note on knowledge of materials for safety. (2)Give advantages and disadvantage of automatic control system. (3)Write notes on (a) Fixed bed reactor (b) Bubble phase reactor. Explain: Factors affecting enzyme substrate (4)activity. Give synthesis of: Paracetamol. (5)Give synthesis of: Barbitol. (C) Answer any **Two**: 10 Write a detailed note on laboratory safety. (1) Write a note on sources of information for a (2)process research. Explain with neat diagram transportation lag.
 - (3) Explain with neat diagram transportation lag. Explain three reasons for transportation lag.
 - (4) Explain: Proteins in detail.
 - (5) Describe manufacturing of Penicillin G with diagram.

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3	(A)	Answer any Three:		
		(1)	Draw a labelled diagram of a control valve.	
		(2)	Write a note on time schedule in chemical industries.	
		(3)	Write a short note on inert dust and harmful dust.	
		(4)	Define: (i) Hypnotics (ii) Anti hypertensive agent.	
		(5)	Explain: Flavonoid in brief.	
		(6)	Define : (i) Chemotherapy (ii) Pseudo tannin.	
	(B)	Ans	wer any Three :	9
		(1)	Write a note on utilities used in chemical industries.	
		(2)	Enlist advantages and disadvantages of a manual control system.	
		(3)	Write a note on color codes for safety.	
		(4)	Describe : Oil, Fat and Wax.	
		(5)	Give synthesis of Ephedrine.	
		(6)	Give synthesis of Ibuprofen.	
	(C)	Answer any Two:		
		(1)	Explain in detail components of a control system.	
		(2)	Explain in detail storage, handling and	
			transportation of chemicals in industries.	
		(3)	Describe: Carbohydrates.	

Explain: Sulpha drugs in detail.

Explain: Lactic acid production in detail.

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(4) (5)