

## MCQ-003-001538 Seat No. \_\_\_\_\_

## Third Year B. Sc. (Sem. V) (CBCS) Examination May / June - 2018

IC - 502: Heavy & Fine Chemicals-1 & Management

Faculty Code: 003 Subject Code: 001538

$\frac{1}{2}$ Hours] [Total Marks : 70
ions: (1) All the questions are compulsory (2) Figures to the right indicate maximum marks. (3) Draw labelled diagram wherever necessary. (4) Assume suitable data. (5) Question-1 carries 20 marks. (6) Question-2 & 3 carry 25 marks each.
wer the following questions:
In product life cycle which stage comes between introduction and maturity stages?
What is scientific recruiting and training?
Total Capital Investment = Fixed Capital Investment +
"Planning refers to a preview of future activities" this definition is given by Henry Fayol. Is this sentence true or false.
Enlist factors affecting production planning.
Give examples of Inventory.
Enlist product development stages.
level management have conceptual skills.
Establishment of standard performance and measurement of actual performance comes under functions of management.
Supervision, Motivation, Leadership and Communication come under functions of management.

	(11)	Define: Hygroscopic substance.	
	(12)	Write chemical formula of slaked lime.	
	(13)	Diaphragm cell is also known as	
	(14)	Priling method is used for manufacturing of	
	(15)	Enlist major use of thiosulphate.	
	(16)	Write function of bleaching agent.	
	(17)	Give the name of coagulating agent.	
	, ,	Give structure of melamine.	
	(19)	is used in wool adhesive in dye industries.	
		Which fluid is used as body preservative fluid?	
2	(A)	Answer any Three:	6
	, ,	(1) Define leadership and motivation.	
		(2) What is differential payment system?	
		(3) Explain elements of cost accounting.	
		(4) Enlist any four uses of nitric acid.	
		(5) Give in brief: Properties and use of calcium carbide.	
		(6) Write properties and uses of glycerol.	
	(B)	Answer any Three:	9
		(1) Explain plant location and plant layout with examples.	
		(2) What is PEST and SWOC analysis? Explain with	
		examples.	
		(3) Explain types of plant maintenance with examples of each.	
		(4) Give at least three differences between wet process	
		and electric furnace process.	
		(5) Write source and use of Iodine.	
		(6) Write a short note on Zeolite.	
	(C)	Answer any <b>Two</b> :	10
		(1) Explain inventory management in detail with	
		inventory control diagram.	
		(2) Explain decision making in detail.	
		(3) Explain functions of management.	
		(4) Explain in detail: Production of phosphoric acid.	
		(5) Explain in detail: Manufacturing of Glauber's salt from anhydrous Na <sub>2</sub> SO <sub>4</sub> .	

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3	(A)	Answer any Three :	6
0	(11)	(1) Draw diagram of economic order quantity.	U
		(2) Enlist common motivators in an organization.	
		(3) What is scientific task setting?	
		(4) Enlist different methods of production for ammonium nitrate.	r
		(5) Explain manufacturing of silicon carbide in brie	f.
		(6) Explain manufacturing of acetone from isopropy alcohol.	yl
	(B)	Answer any <b>Three</b> :	9
		(1) Explain Maslow's hierarchy of needs for motivatio theory with diagram.	n
		(2) Explain types and features of planning with the examples.	ir
		(3) Explain factors affecting job satisfaction.	
		(4) Give schematic figure for manufacturing of 95° nitric acid, give its uses.	%
		(5) Write any two uses of sodium thiosulphate.	
		(6) Write uses, properties and manufacturing reaction of acrylate.	n
	(C)	Answer any <b>Two</b> :	10
		(1) Explain factors involved in product cost estimation	ı.
		(2) Explain planning in detail.	
		(3) Explain in detail: Manufacturing of ammonium	n

- phosphate.(4) Explain in detail: Borax manufacturing.
- (5) Explain manufacturing of glycerol.