

JW-003-001538 Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

October - 2019

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

> Faculty Code: 003 Subject Code: 001538

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70

Instructions:

- (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 and 3 carry 25 marks each.				
1	Answer the following questions:				
	1.	To is to forecast and plan, to organize, to command, to co-ordinate and to control.			
	2.	There are mainly managerial skills according to Professor Robert Katz.			
	3.	has given concept of scientific management.			
	4.	According to Koontz planning is deciding in advance - what to do, when to do and to do. It bridges the gap from where we are and where we want to be			
	5.	can be regarded as the cognitive process resulting in the selection of a belief or a course of action among several alternative possibilities.			
	6.	According to Henry Fayol " refers to a preview of future activities."			
	7.	is a theory in psychology proposed by Abraham Maslow.			
	8.	Give full form of EOQ.			
	9.	Total cost = + Ordering cost.			
JW-003-001538] 1 [(

	10.	Full	form of PLC is Product Cycle.		
	11.		te the raw materials used for manufacturing of nonia.		
	12.	Give	e two uses of nitric acid.		
	13.	Nels	son cell is also known as		
	14.	Com	nmon salt is also called		
	15.	The	molecular formula of Glauber's salt is		
	16.	_	nene process is used to manufacture from zene.		
	17.	Give any two properties of melamine.			
	18.	Sorb	oitol is also known as		
	19.	Zeol	ite acts as adsorbent. True/False ?		
	20.	Give	e molecular formula of borax.		
2	(a)	Ansv	wer any three:	6	
		1)	Define management according to G. R. Terry.		
		2)	What is breakdown maintenance of plant?		
		3)	What is lead time in inventory management?		
		4)	Write a brief note on 2-butane-1, 4-diol.		
		5)	Enlist raw materials required for manufacturing of triple superphosphate.		
		6)	Write industrial applications of calcium carbide.		
	(b)	Ans	wer any three:	9	
		1)	Give detailed idea on managerial skills.		
		2)	Write a brief note on concept of scientific management.		
		3)	Enlist functions of planning, explain any three in brief.		
		4)	Draw only diagram of mercury cathode cell.		
		5)	Write properties and uses of resorcinol.		
		6)	Write a brief note on acetone.		
	(c)	Ans	wer any two:	10	
		1)	Explain functions of management in detail.		
		2)	Discuss decision making process step by step.		
\mathbf{JW}	-003-	00153	[Con	td	

- 3) Explain Maslow's hierarchy of needs is a theory in detail with diagram.
- 4) Explain Bosch and Harber process for manufacturing of ammonia.
- 5) Describe manufacturing of carbon black with neat diagram.

3 (a) Answer any three:

6

- 1) What is ordering cost?
- 2) Give examples of indirect cost.
- 3) What is differential payment system?
- 4) Write a brief note on pyridine.
- 5) Give uses of ammonium phosphate.
- 6) Draw only diagram of fluorine cell.

(b) Answer any three:

9

- 1) Give example of PEST analysis.
- 2) Explain in detail: Plant location.
- 3) Explain job satisfaction in detail.
- 4) Draw only diagram for manufacturing of phosphoric acid by wet process.
- 5) Write properties and uses of ammonium sulphate.
- 6) Write only reaction for manufacturing of phenol by Dow-toluene air oxidation process.

(c) Answer any two:

10

- 1) Write detailed note on concept of inventory management with diagram.
- 2) Explain product classification in detail.
- 3) Discuss manufacturing of nitric acid via Ostwald's process.
- 4) Explain manufacturing of vinyl chloride with neat diagram.
- 5) Discuss manufacturing of glycerin via spent lye.