

RY-003-1016027 Seat No. _____

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

March - 2019

IC - 602: Petrochemicals & Industrial Management

Faculty Code: 003

Subject Code: 1016027

Tin	ne : 2	$2\frac{1}{2}$ H	Tours] [Total Marks : 7	0
Ins	struct	ions	 (1) Question paper carries total 5 questions. (2) All the questions are compulsory & carry 1 marks each. 	4
			(3) Draw labeled diagram wherever necessary.	
			(4) Assume suitable data.	
1	(A)	Ans	wer the following questions :	4
		(1)	For manufacturing of CS_2 is used as catalyst system.	
		(2)	is called Vinyl group.	
		(3)	Give industrial & domestic uses of acetic acid.	
		(4)	Write structure of ethylene oxide.	
	(B)	Ans	wer in brief : (Any One out of Two)	2
		(1)	Write industrial & laboratory applications of ethanol with grades.	
		(2)	Write only chemical reaction for manufacturing of Acetic acid.	
	(C)	Ans	wer in detail : (Any One out of Two)	3
		(1)	Explain manufacturing of ethylene glycol in detail.	
		(2)	Explain manufacturing of carbon disulphide in detail.	

	(D)	Write a note on: (Any One out of Two)		5
		(1)	Explain production process of ethylene in detail with neat diagram.	
		(2)	Explain manufacturing of vinyl acetate monomer in detail.	
2	(A)	Ans	wer the following questions:	4
		(1)	"IPA is more volatile than H_20 ". Is this statement true or false?	
		(2)	For conversion of styrene from ethyl benzene catalyst is needed.	
		(3)	Cumene is used for production of	
		(4)	Give structure of epichlorohydrin.	
	(B)	Ans	wer in brief : (Any One out of Two)	2
		(1)	Write reaction for manufacturing of glycerol.	
		(2)	Write reaction for manufacturing of Acrylic acid.	
	(C)	Ans	wer in detail : (Any One out of Two)	3
		(1)	Draw only flow diagram of glycerin manufacturing process.	
		(2)	Draw only flow diagram of maleic anhydride manufacturing process	
	(D)	Wri	te a note on : (Any One out of Two)	5
		(1)	Write a note on manufacturing process of styrene with detailed diagram.	
		(2)	Write a note on manufacturing process of butadiene with detailed diagram.	
3	(A)	Ans	wer the following questions:	4
		(1)	"Naphthalene is used as insecticide". Is this statement true or false?	
		(2)	For manufacturing caprolactum is used as raw material.	
		(3)	For manufacturing dimethyl terephthalate is used as raw material	
		(4)	Give structure of cyclohexanone.	

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	(B)	B) Answer in brief: (Any One out of Two)			
		(1)	Explain SNG production in detail.		
		(2)	Explain naphtha steam reforming in detail.		
	(C)	Ansv	wer in detail : (Any One out of Two)	3	
		(1)	Explain manufacturing of toluene diisocyanate in detail.		
		(2)	Explain scheme for CO & H_2 production.		
(D)		Write a note on: (Any One out of Two)			
		(1)	Write detailed note with diagram: LABS production.		
		(2)	Explain manufacturing of Caprolactum in detail.		
4	(A)	(A) Answer the following questions:			
		(1)	Henry Fayol Quoted "To is to forecast, to organize, to command, to coordinate and to control.		
		(2)	"Top management works on policy making tasks". Is this statement true or false?		
		(3)	has given theory of scientific management.		
		(4)	Supervision comes under function of management.		
	(B)	Ansv	wer in brief : (Any One out of Two)	2	
		(1)	Draw only organization chart of any chemical company.		
		(2)	Explain functions of human resources manager with an example.		
	(C)	Ansv	wer in detail : (Any One out of Two)	3	
		(1)	What is SWOC & PEST analysis? Explain each component of SWOC & PEST in detail.		
		(2)	Explain Maslow's hierarchy of needs theory with diagram.		
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(A)	(1) (2) Ans	Explain functions of management in detail. What is decision making process? Write detailed note on it.	
(A)	` ,	G -	
(A)	Ans		
, ,		wer the following questions:	4
	(1)	= Direct cost + Indirect cost	
	(2)	Inventory cost = Ordering cost + cost.	
	(3)	Total capital investment = fixed capital investment + capital investment.	
	(4)	Soap comes under goods. (Convenience/ Specialty)	
(B)	Ans	wer in brief: (Any One out of Two)	2
	(1)	Give examples of direct cost & indirect cost.	
	(2)	Explain elements of cost accounting.	
(C)	Answer in detail : (Any One out of Two)		3
	(1)	Explain product development stages in detail with their examples.	
	(2)	Explain in detail product line, product mix and branding of product with examples.	
(D)	Write a note on: (Any One out of Two)		5
	(1)	Explain plant layout in detail with example of petroleum refinery.	
	(2)	Explain chart of economic order quantity with an example	
	(C)	(3) (4) (B) Ans (1) (2) (C) Ans (1) (2) (D) Writted (1)	 (3) Total capital investment = fixed capital investment + capital investment. (4) Soap comes under goods. (Convenience/ Specialty) (B) Answer in brief: (Any One out of Two) (1) Give examples of direct cost & indirect cost. (2) Explain elements of cost accounting. (C) Answer in detail: (Any One out of Two) (1) Explain product development stages in detail with their examples. (2) Explain in detail product line, product mix and branding of product with examples. (D) Write a note on: (Any One out of Two) (1) Explain plant layout in detail with example of petroleum refinery. (2) Explain chart of economic order quantity with an