

## BBG-003-1016027 Seat No. \_\_\_\_\_

## B. Sc. (Sem. VI) (CBCS) Examination July - 2021

IC-602: Petrochemicals & Industrial Management

Faculty Code: 003 Subject Code: 1016027

Time	e: 2	$\frac{1}{2}$ H	[ours]	[Total Marks : 7	70
Instr	uctio	ons :	(1) (2)	Question paper carries total 10 questions. All the questions have general option & carry 14 mark each.	ks
			(3)	• •	
			(4)	Draw labeled diagram wherever necessary & Assumsuitable data.	ne
1	(A)	Ans	wer th	ne following questions.	4
		(1)		is smallest hydrocarbon.	
		(2)	"Ethy	ylene is unsaturated product" true or false?	
		(3)	Raw	material for manufacturing of hydrogen cyanide	
			is _	,	
		(4)	"Etha	anol can be used as solvent", True of False?	
	(B)	Ans	wer in	n brief.	2
		(1)	Write	e only reaction for production of carbon disulfide.	
	(C)			ı detail.	3
				e chemical reactions for manufacturing of methanol.	
	(D)			note on.	5
			-	ain production of methanol with neat diagram.	
2	(A)			ne following questions.	4
		(1)		ic acid contains functional group.	
		(2)		is aromatic product. (Styrene, Ethylene)	
				nane reacts with sulfur gives	
		(4)		s used as in hydrogenation of aidehyde.	_
	(B)			n brief.	2
		(1)	Write	e properties of methanol.	
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(C)		Answer in detail.		
		(1) Discuss manufacturing of ethylene-oxide with neat		
		diagram.		
	(D)	Write a note on.	5	
		(1) Discuss manufacturing of ethylene with schematic diagram.		
3	(A)	Answer the following questions.	4	
		(1) Give full form of IPA.		
		(2) How many carbons are present in the structure of allyl alcohol?		
		(3) Cumene is also known as		
		(4) Which catalyst is used to convert allyl alcohol to glycerol?		
	(B)	Answer in brief.	2	
		(1) Write properties of maleic acid.		
	(C)	Answer in detail.	3	
		(1) Write properties and uses of styrene.		
	(D)	Write a note on.	5	
		(1) Write a detailed note on acrylic acid with diagram.		
4	(A)	Answer the following questions.	4	
		(1) Iso propyl benzene is produced from benzene and		
		propylene in presence of		
		(2) Which catalyst is used to produce maleic anhydride from butane?		
		(3) Write name of AgO.		
		(4) How many oxygen atoms are present in acetic acid?		
	(B)	Answer in brief.	2	
		(1) Write uses of acrylic acid.		
	(C)	Answer in detail.	3	
		(1) Draw only diagram for production of IPA.		
	(D)	Write a note on.	5	
		(1) Explain production of butadiene with neat diagram.		
5	(A)	<u> </u>	4	
		(1) In BTX, B stand for		
		(2) In BTX T stand for		
		(3) $\alpha$ -naphthol is used as insecticide named		
		(4) Which catalyst is used to convert naphthalene to		
		phthalic anhydride?		

	(B)	Answer in brief.				
		(1) Write chemical reaction for manufacturing of adipic				
		acid.				
	(C)	Answer in detail.	3			
		(1) Describe BTX separation with diagram.				
	(D)	Write a note on.	5			
		(1) Discuss natural gas steam reforming process with suitable diagram.				
6	(A)	Answer the following questions.	4			
	()	(1) Give full form of LABS.	_			
		(2) TDI stands for what?				
		(3) At which temperature, p-xylene is converted in to Terphthalic acid via oxidation?				
		(4) Adipic acid is monomer for the production of				
	(B)	Answer in brief.	2			
		(1) Write uses of naphthalene.				
	(C)	Answer in detail.	3			
		(1) Write a note on naphthalene in brief.				
	(D)	Write a note on.	5			
		(1) Explain linear alkyl benzene and its sulphonates with diagram.				
7	(A)	Answer the following questions.	4			
,	(1 1)	(1) Operational and routine decisions are made by	•			
		level management. (Top/Bottom)				
		(2) Write any five managerial skills.				
		(3) What is the meaning of term, management?				
		(4) Write any five managerial posts in chemical industries.				
	(B)	Answer in brief.	2			
		(1) Explain SWOC and PEST analysis.				
	(C)	Answer in detail.	3			
	` '	(1) Write directing and staffing functions of management.				
	(D)		5			
	` '	(1) Explain decision making in detail.				
8	(A)	Answer the following questions.	4			
	( )	(1) Write examples of strategic planning.				
		(2) Write examples of routine planning.				
		(3) Write role of HR management in industries.				
		(4) What is role of finance manager in industries ?				
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(	(B)	B) Answer in brief.			
		(1) Write factors affecting job satisfaction.			
	(C)	Answer in detail.	3		
		(1) Explain functions of planning.			
	(D)	Write a note on.	5		
		(1) Explain Inventory control and its terms with examples and chart.			
9	(A)	Answer the following questions.	4		
		(1) "In introduction stage sales of product remain almost constant", True or False?			
		(2) Enlist any two convenience products.			
		(3) Enlist any two specialty products.			
		(4) Enlist cost associated with manufacturing and sales of			
		hand sanitizer for new business.			
	(B)	Answer in brief.	2		
	( ~\)	(1) Write breakdown maintenance with examples.	_		
	(C)	Answer in detail.	3		
	(D)	(1) Write elements of cost accounting.	_		
	(D)	Write a note on.	5		
		(1) Explain product life cycle in detail with chart and examples.			
10	(A)	Answer the following questions.			
		(1) Total Capital Investment =			
		Capital Investment + Working Capital.			
		(2) How can we create capital?			
		(3) Enlist any six examples of maintenance.			
		(4) Stable political structure is for business. (Good/ Bed)			
	(B)	Answer in brief.	2		
		(1) Enlist main factors that affect a plant location.			
	(C)	Answer in detail.	3		
		(1) Explain factors involved in product cost estimation.			
	(D)	Write a note on.	5		
		(1) Explain product development stages of electric car.			