

BS-IC-602 : Petrochemicals & Industrial Management

Faculty Code: 003 Subject Code: 1016027							
Time:	$2\frac{1}{2}$ H	Hours]	[Total Marks :	70			
Instruc	tions	: (1) (2) (3) (4) (5) (6)	Question paper carries 5 questions.  All the questions are compulsory.  All questions carry 14 marks each.  Figures to the right indicate maximum mark  Draw labeled diagram wherever necessary.  Assume suitable data.				
1 (A)	Ans (1) (2) (3) (4)	Write What $Pd+2$	e following questions: structure of Ethylene. is naphtha? $CuCl_2 \rightarrow \underline{\hspace{1cm}}$ structure of ethylene glycol.	4			
(B)	Ans (1) (2)	Write	brief: (Any <b>One</b> out of Two) various catalysts used for various reforming sses with advantages.  a brief note on ethylene oxide.	2			
(C)	Ans	wer in	detail : (Any <b>One</b> out of Two)	3			

(2)

Give a note on acetic acid manufacturing process.

Explain manufacturing of ethanol from ethylene.

	(D)	Write a note on: (Any <b>One</b> out of Two)		5
		(1)	Write production of Methane from naphtha cracking.	
		(2)	Explain manufacturing of ethylene oxide with diagram.	
2	(A)	Answer the following questions:		
		(1)	Give structure of iso-butylene.	
		(2)	Give structure of acrolein.	
		(3)	IPA has how many methyl group in its structure?	
		(4)	Butene has number of double bond/s.	
	(B)	Ans	ewer in brief : (Any <b>One</b> out of Two)	2
		(1)	Enlist various chemicals obtained from C3 fraction of hydrocarbon.	
		(2)	Enlist various catalysts used in processing of C3 hydrocarbons.	
	(C)	Ans	wer in detail : (Any <b>One</b> out of Two)	3
		(1)	Write applications of isopropyl alcohol.	
		(2)	Write applications of acrolein.	
	(D)	Write a note on: (Any One out of Two)		5
		(1)	Write a note on separation of C4 fraction.	
		(2)	Explain manufacturing of glycerol.	
3	(A)	(A) Answer the following questions:		4
		(1)	Dehydrogenation of cyclohexane gives	
		(2)	Give structure of beta-naphthol.	
		(3)	Write structure of dimethyl-terephthalate	
		(4)	"Bisphenol-A can be synthesized from Acetone" True or false?	
	(B)	ewer in brief : (Any <b>One</b> out of Two)	2	
		(1)	Write various catalysts used for processing of C4 chemicals.	
		(2)	Give reaction scheme for manufacturing of phthalic anhydride.	

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(C)		Answer in detail : (Any <b>One</b> out of Two)		
		(1)	Give applications and reaction scheme for manufacturing of 2,4-toluene diisocyanate.	
		(2)	Write applications of C4 chemicals.	
	(D)	Wri	te a note on : (Any One out of Two)	5
		(1)	Explain manufacturing of terephthalic acid diagram.	with
		(2)	Write a detailed note on caprolactam manufact process.	uring
4	(A)	Ans	wer the following questions:	4
		(1)	Define: Management	
		(2)	Enlist levels of Maslow's hierarchy of need	.S.
		(3)	Explain different managerial skills at all level	three
		(4)	Enlist levels of management	
	(B)	Ans	wer in brief: (Any One out of Two)	2
		(1)	Explain directing function of management	
		(2)	Explain PEST analysis in detail	
	(C)	Answer in detail : (Any <b>One</b> out of Two)		3
		(1)	Write a note on inventory management graph, terminologies and importance of inver-	
		(2)	Explain human resources management in of with its importance and functions	letail
	(D)	Write a note on: (Any One out of Two)		
		(1)	Write a detailed note on planning with its t steps and examples	ypes,
		(2)	Explain functions of management in detail diagram	with
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5	(A)	Answer the following questions:	4
		(1) Write examples of consumer products with different brand names.	
		(2) Enlist advantages of establishing industries in India	
		(3) Enlist direct cost associated with production.	
		(4) Write any three good and bad areas for petroleum refinery plant location in India.	
	(B)	Answer in brief: (Any One out of Two)	
		(1) Explain advantages of establishing industries in India	
		(2) Write examples of visions of industries.	
	(C)	Answer in detail : (Any <b>One</b> out of Two)	
		(1) Explain factors affecting plant location.	
		(2) Explain factors affecting plant layout.	
	(D)	Write a note on: (Any One out of Two)	5
		(1) Write process layout of any chemical manufacturing company.	

Explain cost accounting and its components in

(2)

detail.