22229

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3	Ho	urs	/	70	Marks	Seat	No.								
	Instru	ctions	_	(1)	All Question	s are Comp	oulsor	ry.							
				(2)	Answer each	next main	Que	stic	on c	on a	i ne	ew	pag	e.	
				(3)	Illustrate you necessary.	ir answers v	with	nea	at sl	ketc	hes	wł	nere	ever	
				(4)	Figure to the	e right indic	cate f	full	ma	ırks					
				(5)	Mobile Phon Communicati Examination	e, Pager an on devices Hall.	are i	y o not	other per	r El mis	lect sibl	roni le i	ic n		
														Ma	rks
1.		Answ	ver	any	<u>FIVE</u> of the	following:									10
	a)	Defin	e t	ond	energy.										
	b)	Define organic chemistry. Write its importance.													
	c) Draw the st				uctural formula of esters and ethers.										
	d)	Defin	e S	Sterco	chemistry.										
	e) Distinguish be			ish b	etween Monor	mer and Po	olyme	er.							
f) Define an e			in ex	ample of Stre	rochemistry	•									
	g) Define electronegativity.														
2.		Answ	ver	any	THREE of t	he followin	ıg:								12
	a)	List 1	the	types	s of bonds wi	ith example	•								
	b)	List o	out	the g	general charac	cteristics of	aron	nati	ic c	omp	our	nds.			
	c)	Write chlori	th ine.	ie ad	dition reactio	ns of benz	zene	wi	th ł	nydr	oge	en a	and		
	d)	Give	exa	ample	e of Nitration	and Sulpho	onatio	on	reac	tior	IS.				

3. Answer any THREE of the following: a) Describe chemistry of compounds with asymmetric carbon atom. b) Compare in behaviour on solubility of a low molecular weight and a polymer. Explain the concept with example - atom, molecule, compound. c) Classify the organic compounds on the basis of structure and d) functional group. 4. Answer any THREE of the following: 12

- a) Distinguish between aliphatic and aromatic compounds. Give examples.
- b) Explain the rules of IUPAC naming nomenclature of organic compounds.
- c) Compare geometrical and optical isomerism with an example of each.
- Explain the effect of functionality on the structure of a polymer d) on the basis of heating.
- e) Distinguish between aldehydes and Ketone.

5. Answer any THREE of the following:

- Define Bond angle, bond length, bond polarity and dipole a) moment.
- b) Identify the functional group of following structure:
 - $C_2H_S OH$ (i)
 - CH₃COOCH₃ (ii)
 - (iii) $C_2H_S O CH_3$
 - (iv) H CHO
- c) Describe the process of purifying any one monomer.
- Describe structure of Polyethylene and explain its chemical d) behaviour.

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6. Answer any <u>THREE</u> of the following:

- a) Distinguish between hydrogenation and oxidation.
- b) Describe polyvinyl chloride (PVC) with its structure.
- c) Compare amines and amides. Give examples.
- d) Identify the following monomers (Name it)



e) Describe Friedel Craft's reaction of benzene.