Y-267 Paper Code Roll No. of the Part-H CHEMISTRY (Fresh) Student (1) Marks: 18 Time: 20 Minutes € Multiple Choice Questions Serial No. Of the Answer Book **③** 01 Mark for each

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- 1) Attempting all Mr Qs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (300), which one is correct with blue or black ball point, in this sheet as well as in separate OMR Sheet like
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

			SECTION-A		-	
ι,	Which one of the following is more	acid	ic?			
			P_2O_5	(6)	SO ₃	
2	Crowing within the molecule of a s	subs	trate generally fav	ors .	 	
	Elimination		Substitution		Addition	both A and B
3,	The general formula of Alkyne is	·				
	\odot C_nH_nO		C_nH_{2n}	(c)	$C_n H_n O_2$	
4.	Which gas is not a polutant?		•			•
	⊗ SO₂	⑱	NO ₂ .	©	CO	● CO ₂
5.	The compound with light boiling p	oint	is	 '	•	•
	Acetic acid		Water		Ethyle alcohal	Ether
6.	Material known as plaque, which st	 ,				
	 Sucrose 	(1)		0	Glucose	Maltose
7.	Fe (II) compounds are	in	geometry.			
	octahédral			0	rhombie	square planner
8.	The optimum P^{H} of pepsion is		,	2		
	⊗ 1.5		1	©	2.5	2.0
9.	Hydrolysis of acid anhydrides form	ı _	·	7	4.	•
	Acetic acid		Ethanol	<u></u>	Methanol	© Ether
10	o. The final stage of conversion of de	cayi	ng plants into coa	l is		
	• Anthracite .		Lignite		peat	Bituminous
1	1. The marsh gas mainly consists of				• •	•
	⊗ C ₂ H ₄	•	CH _k		H_2S	(a) SO,
j:	2. Alkenes react with Oxygen to form	a epo	oxides in the prese	ence (of catalyst	•
	● Ag) Fe		Zn	® Ni
1	3. The charge on Co in [Co(CN) ₆] is	·	· · ·			
	⊗ +4	•	+3	@	+6	— 3
l	4. Which of these polymers is an add	litiot	polymer?			
	Nylon		D Epoxy resins		PVC	Trylene
ı	5. Both carboxylic acids and esters c	an b	e reduced by LiA	lH ₄ to	a product	* · · · · · · · · · · · · · · · · · · ·
	 Tertiary alchol 	0	D Secondary alch	ıol 🗨	Primary alchol	None of these
1	6. Which one of the alkali metal reac	ı w	ith nitrogen to for	in nit	ride?	
	♦ Li	(D Na	(K	® Rb
1	17. A carboxylic acids on reaction wi			l to	·	
	Alcohol	• (D Aldehyde	. (Ketone	Alkenes
	18. Grigndd reagent can be represent	ed b	y general formula	٠	· · · · · · · · · · · · · · · · · · ·	
	R − Mg − N	(R − Mg − O	(R - Mg - OH	R - Mg - X

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CHEMISTRY (Fresh) P-H

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 40

- II. Attempt any TEN Parts out of the following. Each Part carries equal marks.
 - i. Briefly discuss the Lucas test for the differentiation of primary, secondary and fertiary alcohol.
 - ii. Why methanoic acid is stronger acid than chanoic acit?
 - iii. How halogens are detected in the organic compound?
 - iv. Differentiate between Homolytic and Heteroltic fission.
 - v. What is the role of Ozone in the upper atmosphere?
 - vi. Why vegetable oil is sensitive to rancidity?
 - vii. Explain the reaction of ethyl acetate with Grignard reagent.
 - viii. How do you detect the unsaturation in alkene.
 - ix. Enlist the physical properties of ethers.
 - x. Describe the fractional distillation of petroleum.
 - xi. How you will prepare carboxylic acid from aldehydes and alkyl benzene.
 - xii. Define Contaminants, Pollutants, BOD, Smog.
 - xiii. Discuss Hydroxide of period 3 elements.

SECTION "C"

Marks: 27

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

- III. (a) Write down the structure of the following compounds
 - (i) Mesitylene
- (ii) Methyl phenyl ether
- (iii) Cresol

- (iv) Benzyl alkohol
- (v) Durene
- (b) Explain Ozonolysis of alkene and alkyne.
- IV. (a) Discuss the effect of temperature and p^H on enzyme activity.
 - (b) Compare SN^2 and E^2 reaction.
- V. (a) Write down the main function of IR, UV visible and NMR spectroscopy.
 - (b) Explain the role of potassium manganite as an oxidizing agent in titration.
- VI. Write short note on any two of the following
 - (i) Acidity of phenols
- (ii) Carbohydrates
- (iii) Inert pair effect