Turn over

D 11	11821 (Pages : 2)	Name
		Reg. No
THIRD SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION		
NOVEMBER 2021		
Chemistry		
CHE 3C 03—ORGANIC CHEMISTRY		
Time o	(2014—2018 Admissions) me : Three Hours	Marinaum . C4 Marina
11me	me: Inree Hours Section A	Maximum : 64 Marks
Answer all the questions. Each question carries $1\ mark\ (one\ word)$.		
1.	1. Homolytic bond fission in a reaction leads to the formation of	of———.
2.	2. The hybridization of carbon atoms in benzene is	- .
3.	3. Halogens exhibits ——— inductive effect.	
4.	4. Which carbocation is more stable? primary/ secondary/ tert	iary
5.	5. The preferred conformation of methyl cyclohexane is ———	
6.	6. The reagent and substrate used in Wurtz reaction are ———.	
7.	Number of pi electrons of naphthalene is ———.	
8.	8. Alkyl magnesium halides are known as ———.	
9.	9. TNT is used as ———.	
10.	10. The nitrogenous base that is not present in DNA is ————	 .
		$(10 \times 1 = 10 \text{ marks})$
Section B		
Answer any seven questions.		
$Each\ question\ carries\ 2\ marks.\ (short\ answer).$		
11.	11. State isoprene rule.	
12.	12. Draw the structure of nicotine.	
13.	13. What is vulcanization?	
14.	14. Why oils are hydrogenated?	

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- 15. Write two differences of amylose and amylopectin.
- 16. Draw the structure of methyl orange.
- 17. What is Williamsons synthesis?
- 18. How Toluene is converted to TNT?
- 19. Kb value increases in the order Methylamine, Dimethylamine, Triethylamine Why?
- 20. Write two examples of neutral amino acids.

 $(7 \times 2 = 14 \text{ marks})$

Section C

Answer any **four** questions.

Each question carries 5 marks (paragraph)

- 21. How soap is prepared?
- 22. Write the preparation and uses of phenopthalein.
- 23. Write three evidences for cyclic structure of glucose.
- 24. Write any three synthetic applications of Grignard reagents.
- 25. How will you convert ethanol to propanoic acid?
- 26. Distinguish between S_N1 and S_N2 reactions.

 $(4 \times 5 = 20 \text{ marks})$

Section D

 $Answer\ any\ {\bf two}\ questions.$ Each question carries 10 marks. (Essay).

- 27. Explain the primary, secondary and tertiary structure of proteins.
- 28. Write an essay on conformations of ethane and cyclohexane.
- 29. Explain the structure of benzene and aromaticity.
- 30. Explain the preparation of ethanol from molasses.

 $(2 \times 10 = 20 \text{ marks})$