

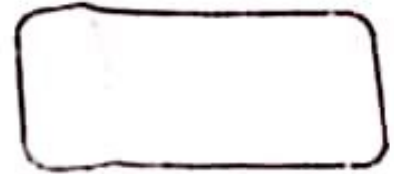
INSTRUCTION: ANSWER ALL QUESTIONS

Unit: 2

Name:

Matric number:

Department: Programme:



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1. If the molecular mass of Z was found to be 179 and the empirical formula CH_2O . What is the molecular formula of the Z? A) $\text{C}_7\text{H}_{11}\text{O}_5$ B) $\text{C}_6\text{H}_{12}\text{O}_5$ ☒ C) $\text{C}_6\text{H}_{12}\text{O}_6$ D) $\text{C}_6\text{H}_{12}\text{O}_7$
2. A compound P on analysis was found to contain 19.7% carbon, 2.5% hydrogen, and 11.5% nitrogen. What is the empirical formula? (Atomic mass; C=12, H=1.01, O=16, N=14)
☒ A) $\text{C}_2\text{H}_3\text{NO}_3$ B) $\text{C}_3\text{H}_4\text{N}_2\text{O}_5$ C) $\text{C}_3\text{H}_4\text{N}_2\text{O}_3$ D) $\text{C}_3\text{H}_4\text{NO}_6$
3. Which of the following compound has the hybridization of sp^2 ? ☒ A) boron trifluoride
B) beryllium chloride C) boron difluoride D) beryllium trichloride
4. Homologous series which has a structural formula of $\text{C}_n\text{H}_{2n+1}\text{COCl}$ is called.....
☒ A) acid chloride B) ether C) amide D) ketones
5. The hybridization for trigonal bipyramid ☒ A) sp^3d B) sp^3d^2 C) sp^3 D) sp^2
6. Organic Chemistry is the study of and its compounds.
☒ A) carbon B) nitrogen C) sulphur D) silicon
7. are not hydrocarbons. A) Alkenes B) Alkynes C) Alkanes ☒ D) Alcohols
8. Carbon present in organic compounds is oxidized to which turns lime water milky. A) CO B) SO_2 ☒ C) CO_2 D) H_2O
9. In the determination of hydrogen, water turns white anhydrous CuSO_4 A) pink ☒ B) blue C) red D) black
10. Lassaigne's test is also known as test. A) sodalime test B) oxidation ☒ C) sodium fusion D) beilstein
11. Listed below are Aromatic Compounds except.....
(a) Naphthalene ☒ (b) Cyclohexane (c) Anthracene (d) phenanthrene
12. Alkanes burns with a) heavy smoky flame ☒ b) light smoky flame c) smoky flame d) red flame.

13. One of the following compound is formed as a result of complete substitution reaction of H with Cl in methane ☒ a) Tetrachloromethane b) Tetrachloromethene c) Tetrachloromethane d) Trichloromethane
14. Para Dichlorobenzene is the same as a) 1, 2-Dichlorobenzene b) 1, 3-Dichlorobenzene c) 1, 4-Dichlorobenzene d) 1, 5-Dichlorobenzene
15. One of the distinguishing features of Alkynes is a) It has single bond ☒ b) It has triple bond c) It has double bond d) None of the above
16. The hydrolysis of chlorobenzene using steam to produce phenol is called.....
A) The Green process B) The Cumene process ☒ C) Raschig-Hooker process D) Hock rearrangement
17. All of the following alkyl benzenes undergo oxidation to acids with strong oxidizing agents exceptbenzene. A) propyl ☒ B) t-butyl C) t-butyl D) ethyl
18. All of the following are examples of secondary amines except.....
A) Dimethylamine B) Diethyl amine C) Methylethanolamine ☒ D) Triphenylamine
19. A carbon atom in a ring can be a chirality center if it bears.....different substituent(s)
☒ a) four (b) three (c) two (d) one

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20. All of the following are reactions of ketones except (a) Hydration (b) Halogenation (c) Hydrogenation ☒ (d) Decarboxylation

21. Name the following compound:.....

22. Name the following compound:..... Programme.....

INSTRUCTION: TICK THE CORRECT ANSWERS

	A.	B.	C.	D.
1.				
2.				
3.				
4.				
5.				
6.				

	A.	B.	C.
11.			
12.			
13.			
14.			
15.			
16.			
17.			