

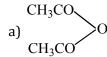
Subject : CHEMISTRY DPP No. : 6 Class: XIIth

Date:

Topic :- Coordination Compounds

1.	$[Pt(NH_3)_4Cl_2]Br_2$ and $[lambda]$ Optical isomer		2 are related	to	rs d) Ionization isomers
2.	Ferrocene is an example of a) Sand-wiched complex b) Pi-bonded complex c) A complex in which all the five carbon atoms of cyclopentadiene anion are bonded to the metal d) All of the above				
3.	Which compound is zer a) $[Cu(NH_3)_4]SO_4$		_	Ni(CO) ₄]	d) K ₃ [Fe(CN) ₆]
4.	Which of the following a) (CH ₃) ₃ CCH(CH ₃)CH ₂ C) (CH ₃) ₂ CHCH ₂ CH ₂ C(C	CH ₃	_{b)} (hyl hexane? (CH ₃) ₃ CCH ₂ (CH ₃) (CH ₃) ₃ CCH(CH ₃)(-
5.	The formula of phenox a) $C_6H_5C_6H_5$		C ₆ H ₅ c) (C ₆ H ₅ —0—C ₆ H ₆	d) None of these
6.	Ziegler-Natta catalyst is an organometallic compa) Iron b) Titanium			nd containing Rhodium	d) Zirconium
7.	Ziegler-Natta catalyst is $a_3 (Ph_3P)_3 RhCl$	yst is b) K[PtCl ₃ (C ₂ H ₄)]		$\left(\text{Al}_2\left(\text{C}_2\text{H}_6\right)_6 + \text{TiC}\right)$	l_4] d)[Fe(C_2H_5) ₂]
8.	The tendency to show complex formation is maxial) s -block b) p -block c			ium inelement d -block	s. d) <i>f</i> -block
9.	EDTA has coordination a) 3	number b)4	c) 5	5	d) 6

10. Which of the following is used in Friedel-Craft's acylation reaction?



 $b)\,CH_3CH_2Cl$

c) CH₃COOCH₃

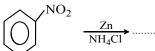
d) CH₃Cl

- 11. The correct IUPAC name of $Mn_3(CO)_{12}$ is
 - a) Dodacacarbonyl maganate (0)
- b) Dodacacarbonyl maganate (II)
- c) Didacacarbonyl trimaganese (0)
- d) Manganic dodecacarbanyl (0)
- 12. The π bonded organometallic compound which has ethene as one of its component is
 - a) Zeise's salt
- b) Ferrocene
- c) Dibenzene chromium
- d) Tetraethyl tin

13. IUPAC name of the compound

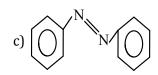
$$CH_3$$
 CH_3
 $C-COOC_2H_5$ is
 NO_2

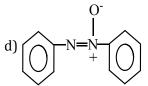
- a) Ethyl-2-methyl-2-(*m*-nitro) phenyl propanoate
- c) Ethyl-2-methyl-2-(3-nitro) phenyl propanoate
- b) Ethyl-2-methyl-2-(o-nitro) phenyl
- propanoate
- d) Ethyl-2-methyl-2-(3-nitro) phenyl propanoic acid
- 14. What is the product obtained in the following reaction:





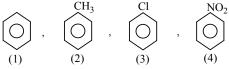






- 15. $[Co(NH_3)_6]Cl_3$ is called:
 - a) Hexaammine cobalt (III) chloride
 - b) Amino cobalt chloride (III)
 - c) Cobalt chloride hexaammine
 - d) Hexaammine tricobalt chloride
- 16. The complexes $[PtCl_2(NH_3)_4]Br_2$ and $[PtBr_2(NH_3)_4]Cl_2$ are example for isomerism
 - a) Geometrical
- b) Optical
- c) Ionization
- d) Linkage

- 17. Geometrical shapes of the complexes formed by the reaction of Ni²⁺ with Cl⁻,CN⁻ and H₂O , respectively, are
 - a) Octahedral, tetrahedral and square planar
- b) Tetrahedral, square planar and octahedral
- c) Square planar ,tetrahedral and octahedral
- d) Octahedral, square planar and octahedral
- 18. Identify the correct order of reactivity in electrophilic substitution reactions of the following compounds:



- c) 2 > 1 > 3 > 4 d) 2 > 3 > 1 > 4
- 19. The centric formula for benzene was proposed by:
 - a) Dewar
 - b) Armstrong and Baeyer
 - c) Ladenberg
 - d) Kekule
- 20. Which is the correct statement?
 - a) Benzyl alcohol is more acidic than phenol
 - b) Ethanol is a powerful oxidizing agent
 - c) Phenol is more acidic than propanol
 - d) Ethane has high boiling point than ethanol