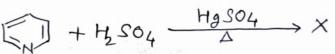
BSC SEM V

NC-16 Organic Chem + Inorganic Chemistry - XII (CBCS) Time: One Hour Max. Marks: 40 Instruction: Attempt All Questions. Attempt Any 40 Questions From Q-1 To Q-40. 1 Which of the following vitamins helps in blood clotting? (C)Vitamin D (D)Vitamin K (A)Vitamin A (B)Vitamin C 2 A pair of water soluble vitamins is: (A)Vitamin B and C (B)Vitamin A and D (C)Vitamin C and K (D)Vitamin E and K 3 Which disease is caused by the deficiency of vitamin C? (A)Pellagra (B)Scurvy (C)Rickets (D)Beriberi 4 Pesticides used to control rats are called: (A)Insecticides (B)Rodenticides (C)Fungicides (D)Herbicides 5 DDT is prepared by the condensation of chloral with: (A)Chlorobenzene (B)Anisol (C)Chloroacetic acid (D)Acetic acid 6 Monochrotophos is a well known: (A)Fungicide (B)Rodenticide (C)Herbicide (D)Insecticide 7 Basic heterocyclic nitrogenous compounds of plant origin that are physilogically active are called -------(A)Herbicides (B)Fats (D)Alkaloids (C)Carbohydrates $C_{10}H_{14}N_2$ Is the molecular formula of: (A)Ephedrine (B)Nicotine (C)Quinine (D)Coniine 9 Which statement is/are correct about alkaloids? (A)They are basic in nature (B)The have bitter taste (C)They are optically active (D)All of above 10 The drug that relieves pain without loss of consciousness is: (A)Anti malarial drug (B)Analgesic drug (C)Antitubercular drug (D)Antibiotics 11 Antidiabetic drug -----. (A)Reduces fever (B)Produces temporary insensibility (C)Controls blood sugar (D)Improves mood 12 Acetylation of salicylic acid gives ----- drug. (A)Aspirin (B)Acetyl salicylic acid (C)Both a & b (D)Paracetamol 13 Sulphanilamide is a well known: (A) Antibacterial drug (B)Antidiabetic drug (C)Anaesthetic drug (D)Analgesic drug 14 Which of the following pairs is a pair of functional drugs? (B)Antimalarials, tranquillizers (A) Analgesics, antipyretics (C)Antitubercular, Analgesics (D)Analgesics, Antibacterial 15 A five member ring containing oxygen is: (A)Thiophene (B)Furan (C)Pyrrole (D)Both a & b 16 Which of the following reactions gives 2-formylfuran from furan? (A)Gomberg reaction (B)Friedel-crafts reaction (C)Gattermann- Koch reaction (D)Diel's -Alder reaction (B)3-pyrroline (A)Pyrrolidine (C)Piperidine (D)All of above (A)2-Butylthiophene (B)3- Butylthiophene (C)2-Lithium thiophene (D)3-Lithium thiophene 19 Sulphur atom in thiophene is ----- hybridized. (A) SP^3 (B) SP² (C) SP (D) None of above 20 Boiling point of pyridine is: (B) 131°C (C) 84°C (D) 115°C (A) $32^{\circ}C$ 21



Where X is:

(A)Pyridine -2-sulphonic acid (B)Pyridine-3-sulphonic acid 22 Pyridine is obtained by passing a mixture of ------ in red hot tube.

(C)Pyridine-4-sulphonic acid

(D)Pvridine-N-oxide

			55,250
(A)Acetylene and hydrogen cyanide	(B)Acetylene and ammonia	(C) β - picoline and hydrogen chlorid	le(D)Ethene and hydrogen cyanide
23 When aniline is heated with glycerol in the presence of H_2So_4 and $C_6H_5No_2$ gives Quinoline. The name of the synthesis reaction is:			
(A)Skraup synthesis	(B)Friedlander synthesis	(C)Fischer-Indole synthesis	(D)Bischler's synthesis
24 Which of the following is an auxochrome?			
(A) $-NH_2$	(B) <i>−CHO</i>	(C) $-NO_2$	(D) -CO-
25 Which of the following dye is prepared by coupling diazotized sulphanilic acid with β - Naphthol in basic medium?			
(A)Diamond black-F	(B)Phenolphthalein	(C)Orange -II	(D)Congo- Red
26 A coloured substance is called a good dye if it fulfills conditions/s:			
(A)It must have a suitable colour.	(B)It must be resistant to the action of water, dilute acids, alkalies etc.	(C)It must fix on the fabric either directly or with the help of mordant.	(D)All of above
27 According to Witt's theory of colour a group that is responsible for producing colour is:			
(A)Chromophore	(B)Auxochrome	(C)Chromogen	(D)Functional group
28 Mohr's salt is a example of			
(A)Simple salt	(B)Double salt	(C)Coordinate compound	(D)None of these
29 The complex that does not give a precipitate with $AgNo_3$ solution is			
(A) $\left[Co(NH_3)_3Cl_3\right]$	(B) $[Ag(NH_3)_2]Cl$	(C) $[Co(NH_3)_6]Cl_3$	(D) $[Cr(NH_3)_4Cl_2]Cl$
30 Which of the following is a bidentate ligand?			
(A)Pyridine	(B)EDTA	(C)Ethylene diamine	(D)Acetate ion
31 According to Werner's co-ordination theory, the secondary valency is			
(A)Ionizable	(B)Non ionizable	(C)Directional	(D)Both b and c
32 The IUPAC name for $K_4[Fe(CN)_6]$ is			
(A)Tetra potassium hexacyno iron (II) 33 The complexes $[Co(NH_3)_5 Br]$ 5	(B)Potassium hexacyno ferrate (III) SO_4 and $[Co(NH_3)_5SO_4]Br$ are	(C)Potassium hexacyno ferrate (II) the example of	(D)Potassium hexacyno iron (II)
(A)Linkage isomerism	(B)Ionisation isomerism	(C)Co-ordination isomerism	(D)Geometrical isomerism
34 The EAN of iron in $\left[Fe\left(CN\right)_{6}\right]^{4-}$ is			
(A)34	(B)35	(C)36	(D)37
35 In a co-ordination compound the negative groups or neutral molecules attached to the central metal atom is called as			
(A)EAN	(B)Ligands	(C)Co-ordination number	(D)Charge of metal ion
36 Which of the following complex species is not expected to exhibit optical isomerism?			
(A) $\left[Co(NH_3)_3cl_3\right]$	(B) $[Co(en)_3]^{3+}$	(C) $[Co(en)_2cl_2]^+$	(D) $[Co(en)(NH_3)_2cl_2]^*$
37 Chelation therapy is used for			
(A)Detoxification of metal ion	(B)Treatment of CORONA	(C)AIDS	(D)Tuberculosis
38 For the treatment of cancer drug is / are used			
(A)Cisplatin	(B)Carboplatin	(C)Satraplatin	(D)All of the above
39 Gold used in			
(A)Antiarthrites drug	(B)Anticancer drug	(C)MRI	(D)CT Scan
40 Gadolinium and Techetinum are used as			

(A)Bleaching agent

(B)Imaging agent

(C)Blueing agent

(D)None of the above