

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Causticisation process is used for the preparation of	A. Caustic soda B. Caustic potash C. Baryata solution D. Slaked lime
2	The main structure features of proteins is	A. An ester linkage B. An ether linkage C. The peptide linkage D. All
3	Ethyl alcohol is industrially prepare from ethylene by	A. Permanganate oxidation B. Catalytic reduction C. Absorbing in H_2SO_4 followed by hydrolysis D. Fermentation
4	The heat evolved in combustion of rhombic and monoclinic sulphur are -70960 and -71030 cal mol ⁻¹ respectively. What will be heat of conversion of rhombic sulphur to monoclinic?	A. 70960 calories B. 71030 calories C. -70 calories D. +70 calories
5	Acetic anhydride is obtained from acetyl chloride by the reaction of	A. P_2O_5 B. H_2SO_4 C. CH_3COONa D. CH_3COCH_3
6	Benezene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
7	In public urinals, we observe some nascent smell. This smell is due to	A. Hydrolysis of urea of urine by urease of atmosphere into NH_3 and CO_2 B. Formation of sulphonic acid by urea of urine C. Reaction of CO_2 of atmosphere with urea mononitrate in urine D. Hydrogen present in air reacts with nitrogen forming NH_3
8	Phenol is heated with CCl_4 and alkaline KOH when salicylic acid is produced. The reaction is known as	A. Friedel-Craft reaction B. Riemer-Tiemann's reaction C. Rosenmund's reaction D. Sommelet reaction
9	The dimension of rate constant of second order reaction involves	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration
10	The IUPAC name of the compound having the formula $(CH_3)_3C - CH = CH_2$ is	A. 1, 1-Dimethyl-3-butene B. 1, 1, 1-Trimethyl-3-propene C. 3, 3,-Dimethyl-1-butene D. 3, 3, 3,-Trimethyl-1-propene
11	Which species represents the electrophile in aromatic nitrotaion?	A. NO_2^{2+} B. NO_2^+ C. NO_2 D. NO_3^-
12	Which of the following units represents largest amount of energy?	A. Calorie B. Joule C. Erg D. Electron vol.
13	Sodium thisoulphate is used in photography because of its	A. Oxidizing behaviour B. Reducing behaviour C. Complexing behaviour D. Photochemical behavior
14	Salol is prepared from	A. Salicyclic acid and phenol B. Salicyclic acid and methyl alcohol.

		C. Both D. None
15	Which of the following statements is correct with respect to the property of elements with increase in atomic number in the carbon family (group 14)?	A. Their metallic character decreases B. The stability of +2 oxidation state increases C. Their ionization energy increases D. Their atomic size decreases
16	Detergents are	A. Synthetic products B. Natural products C. Both A and B D. None of the above
17	Which of the following halogens does not form its oxyacids?	A. F B. Cl C. Br D. I
18	Given below are some statements concerning formic acid, which of them is true?	A. It is a weaker acid than acetic B. it is a reducing agent C. When its calcium salt is heated, it forms a ketone D. It is an oxidizing agent
19	In Friedal-Craft's alkylation besides $AlCl_3$ the other reactants are	A. $C_6H_6 + NH_3$ B. $C_6H_6 + CH_4$ C. $C_6H_6 + CH_3Cl$ D. $C_6H_6 + CH_3COCl$
20	Minamata disease is due to pollution of	A. Organic waste B. Oil spill in water C. Industrial waste containing mercury into fishing water D. Arsenic into the atmosphere