**Questions**

1. Propyne and Propene can be distinguished by

a) Dilute KMnO4 b) Conc. H2SO4

c) AgNO3in ammonia d) Br2in CCl4

2. Hydrocarbon which is liquid at room temperature is

a) Pentane b) Butane c) Propane d) Ethane

3. n-Butylbenzene on oxidation will give

a) Benzoic acid b) Butanoic acid c) Benzyl alcohol d) Benzaldehyde

4. How many monochlorobutanes will be obtained on chlorination of n-butane?

a) 1 b) 2 c) 3 d) 4

5. An alkane C7H16is produced by the reaction of Lithium di (3-Pentyl) cuperate with ethyl bromide. The structural formula of product is

a) 3-methylhexane b) 2-ethylpentane

c) 3-ethylpentane d) n-heptane

6. Octane number is zero for

a) n-heptane b) isooctane c) n-hexane d) isoheptane

7. In Wurtz reaction the reagent used is

a) Na b) Na/Liquid NH3 c) Na/Dry ether d) Na/Dry alcohol

8. Propene is reacted with HBr in presence of peroxide, the product is

a) 2-bromopropane b) 1-bromopropane

c) 3-bromopropane d) none of these

9. Which of the following has highest chlorine content?

a) Pyrene b) DDT c) Chloride d) Gammaxane

10. Which of the following substances is used as an antiknock compound?

a) Tetraethyl lead b) Lead Tetrachloride

c) Lead Acetate d) Ethyl Acetate

11. In the commercial gasolines, the type of hydrocarbons which are not desirable is

a) Branched hydrocarbon b) Straight chain hydrocarbon c) Linear unsaturated hydrocarbon d) Toluene

12. Which gaseous hydrocarbon is produced when calcium carbide reacts with water?

a) Methane b) Ethane c) Ethylene d) Acetylene

13. Which of the following shows acidic character

a) CH3C≡CH b) CH3C≡CCH3 c) CH3−CH3 d) CH2=CH2

14. Reactions of alkanes with halogens is explosive in case of

a) F2 b) Cl2 c) Br2 d) I2

15. Acetylene reacts with ammoniacal silver nitrate to form

a) silver mirror b) metal silver c) silver acetate d) silver acetylide

16. Gammaxane is

a) D.D.T b) Benzene Hexachloride c) Chloral d) Hexachloroethyne

17. Benzene reacts with CH3COCl in the presence of AlCl3to give

a) C6H5Cl b) C6H5COCl c) C6H5CH3 d) C6H5COCH3

18. Toluene on oxidation with dilute HNO3 gives

a) Benzaldehyde b) Phenol c) Nitrotoluene d) Benzoic acid

19. Which of the following compound will form hydrocarbon on reaction with Grignard's reagent?

a) CH3CH2OH b) CH3CHO c) CH3COCH3 d) CH3COOCH3

20. Benzene reacts with Cl2in the presence of halogen carriers to produce

a) Benzyl chloride b) Benzal chloride c) Chlorobenzene

**ANSWERS**

1. C
2. A
3. A
4. B
5. C
6. A
7. C
8. B
9. A
10. A
11. B
12. D
13. A
14. A
15. D
16. B
17. D
18. D
19. A
20. C