1. Buckminster fullerene is an allotrope of

a. Boron b. Iron c. Phosphorus **d. Carbon**

2. Which of the following statements is not true?

a. Buckminster fullerene is an allotropic of carbon

**b. Diamond is a good conductor of electricity**

c. Graphite is a good conductor of electricity

d. Each carbon atom in Graphite attached to other three carbon atoms

5. The first organic compound synthesized in the laboratory is

**a. urea** b. methane c. ethylene d. acetic acid

6. Acidic hydrogen is present in

a**. ethyne** b. ethene c. benzene d. ethane

7. Which of the following is the general formula for saturated hydrocarbons?

a**. CnH2n+2** b. CnH2n-2 c. CnH2n+1 d. CnH2n-1

8. Which of the following is not the allotrope of carbon?

a. Graphite **b. Methane** c. Diamond d. C-60 buckminsterfullerene

9. The excess use of ethyl alcohol damages the human organ which is

a. kidney b. **liver** c. heart d. intestine

10. Of the following chemical compounds, which one may soon be used as a fuel for driving vehicles?

a. **Ethanol** b. Ethene c. Ethylene d. Ethane

11. Denatured spirit is ethanol mixed with

**a. Pyridine** b. Kerosene c. Petrol d. Water

12. The substance employed for the food processing is

a. sodium carbonate b. acetylene c. sodium nitrate d. **benzoic acid**

13. Which of the following compounds does not contain a carboxylic acid group?

a. **picric acid** b. Vinegar c. Salicylic acid d. Benzoic acid

14. Which of the following acids is present in ant bites?

**a. Formic acid**  b. Malic acid c. Perchloric acid d. Nitric acid

15. Which of the following is an aldehyde?

a**. Propanal** b. Propanol c. Propanone d. Propene

16. The explosive nitroglycerine is a

a. salt b. nitro hydrocarbon c. complex hydrocarbon **d. ester**

17. How many chain isomers can be formed by butane?

a. One b. Three c**. Two** d. Four

18. The compound in which the C-atom form a closed chain are termed as

a. aliphatic hydrocarbons b**. cycloalkanes** c. alkanes d. alkenes

19. Which one of the following is burned in oxygen, producing a very hot flame, used for welding and cutting metals?

a. Butane b. Methane c. Ethylene **d. Acetylene**

20. The antiseptic action of Dettol is due to presence of

a. chloro benzol b**. chloroxylenal** c. chloroquine d. chloroma phenicol

21. The hybridization of carbon atoms in alkanes is

(a) sp (b) sp2 **(c) sp3** (d) sp3d

22. Match List I with List II and select the correct answer using the codes given below the list

List I (Organic compound) List II (Use)

1. Butane 1. In the production of saccharin
2. Toluene 2. LPG fuel
3. Benzene 3. In dry cleaning
4. Urotropin 4. In the treatment of urological disease

**Code**  A B C D

1. 3 1 4 2
2. **2 3 1 4**
3. 1 4 2 3
4. 4 2 3 1

23. Give the IUPAC name of this compound: CH3OCH2CH3.

(a) dimethyl ether **(b) methoxyethane**

(c) methylethyloxide (d) propyl ether

24. The correct IUPAC name for ethylene glycol.

1. 2-hydroxy-ethanl-01 b. 1,2-dihydroxy ethane

c. Ethane-1, 1-diol **d. Ethane-1, 2-diol**

25. Which of the following is a correct name according to IUPAC rules?

1. 2, 3- Diethylhexane b. 3-Ethyl-2-methyl-pentane

c. 3,4- Dimethylpentance d. 2-Ethyl-2-methyl-pentane

26. **Methylated spirit is a mixture of**

(a) methyl alcohol and acetic acid **(b) methyl alcohol and ethyl alcohol**

(c) ethyl alcohol and pyridine (d) methyl alcohol and pyridine

27. Dead organs are generally stored in formalin. Formalin is

a. aqueous methanal b. aqueous ferrous sulphate

c. aqueous methanoic acid d. aqueous ferric alum

28. The members of a homologous series have

a. the same physical properties b. different functional groups

**c. same chemical properties** d. different methods of preparation

29. IUPAC name of the compound (CH3)2CH-CH2-CH2-OH is

a. 1-pentanol b. pentanol

c. 2-methyl-4-butanol **d. 3-methyl-1-butanol**

30. Which of the following statements are usually correct for carbon compounds?

a. are good conductors of electricity

b. are poor conductors of electricity

c. having strong force of attraction between their molecules

d. do not have strong force of attraction between their molecules

A. a & c B. b & c C. a & d **D. b & d**

31. ----- structure is formed by the hexagonal arrays being placed in layers one above others

a. Diamond **b. Graphite**  c. Coal d. Fullerene

32. Buckminsterfullerene is an allotropic form of

a. Phosphorous b. Sulphur **c. Carbon** d. Tin

33. The simplest compounds formed by carbon compound is

**a. Methane** b. Ethanol c. Acetic acid d. Ethane

34. Pentane has molecular formula C5H12. It has --------------------

a. 5 covalent bonds b. 12 covalent bonds

**c. 16 covalent bonds** d. 17 covalent bonds

35. In the carbon compound having molecular formula C4H10, all the valecies are satisfied by

**a. Single bonds** b. double bonds

c. Single and double bonds d. Single and triple bonds

36. Carbon has unique ability to form bonds with other atoms of carbon, giving rise to large molecules. This property Is called ----------.

a. allotropes **b. catenation** c. tetravalency d. Isomerism

37. Compounds having same number and kind of atoms but different arrangement of atoms in their molecules are called

a. allotropes b. isotopes **c. Isomers** d. polymers

38. The hybridization of carbon atoms in C-C single bond of H2C=C-CH=CH2 is

a. Sp3-sp2 b. sp2-sp3 **c. sp2- sp2**  d. sp3-sp3

39. What is the number of mole(s) of H2(g) required to saturate one mole benzene?

a. 1 b. 2 **c. 3** d. 4

40. The gas produced through the pouring water on the calcium carbide is

a. Methane b. ethane c. Ethylene d. acetylene

41. Ethane with molecular formula C2H6 has --------------------

a. 6 covalent bonds **b. 7 covalent bonds**

c. 8 covalent bonds d. 9 covalent bonds

42. Cyclohexane has --------------------

a. 9 covalent bonds **b. 18 covalent bonds**

c. 16 covalent bonds d. 20 covalent bonds

43. Which of the following elements are present in hydrocarbons?

**a. C and H only** b. C, H and O only

c. C, H and N only d. C, H, O, N and S only

44. In which of the following compounds -OH is a functional group?

a. Butanone **b. Butanol** c. Butanoic acid d.Butanal

44. The compound given below contains which functional group?

CH3-CH2-COOH

a. Alcohol b. Aldehyde **c. Carboxylic acid** d.Ketone

45. Butanone is a four-carbon compound with the functional group.

a. Alcohol b. Aldehyde c. Carboxylic acid **d. Ketone**

46. Which of the following does not belong to the same homologous series?

a. CH4 b. C2H6 c. C3H8 **d. C4H8**

47. The functional group in Butyne is ……

a. Alcohol b. Aldehyde c. double bond **d. triple bond**