# Chemistry

PB – XII (01) (23)

۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ پُر کریں۔

۲۔ دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کالے رنگ کا پن استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 20 Min **SECTION-A** Marks: 18

1) Grignard's reagent contains____metal.
○ Fe ○ Ca ● Mg ○ Mn

2) The bond angles of H-C-H and H-C-Cl bonds are____.
○ Less than 109.5° ○ Greater than 109.5°
● Equal to 109.5° ○ Equal to 120°

3) 1,2,4,5-tetramethylbenzene is the IUPAC name of____.
○ Xylene ○ Toluene ● Durene ○ Mesitylene

4) Opticla activity of a compound is measured by an instrument called____.
○ Photometer ○ Refractometer
● Polarimeter ○ Calorimeter

5) All of the given are alkanes except____.
○ $C_3H_8$ ○ $C_4H_{10}$ ○ $C_6H_{12}$ ● $C_7H_{16}$

6) Oxa is the functional group of____
○ Ester ○ Aldehyde ● Ether ○ Ketone

7) Which of the given is not organic in nature?
○ $NH_2$-CO-$NH_2$ ● $NH_4CNO$
○ $CH_3$-OH ○ $CH_3Cl$

8) The most stable oxidation state of manganese in acidic or neutral solution is____.
● +2 ○ +4 ○ +6 ○ +7

9) $Al_2O_3$ is____.
○ Acidic oxide ○ Basic oxide
○ Neutral oxide ● Amhoteric oxide

10) Which of the given is NMR inactive nucleus?
○ $^{31}P$ ○ $^{1}H$ ○ $^{15}N$ ● $^{16}O$

11) In combustion analysis $CO_2$ is absorbed by____.
○ $Mg(ClO_4)_2$ ● KOH ○ CuO ○ $CuSO_4$

12) The height of the stratosphere is from____.
○ 1 to 10 km ● 10 to 50 km
○ 50 to 85 km ○ 85 to 387 km

13) Total number of chlorine atoms in DDT are____.
○ 3 ○ 4 ● 5 ○ 6

14) Proteins are polymers of____.
○ Glucose ○ Disulphide bridges
○ Peptide bonds ● Amino acids

15) All are the derivatives of carboxylic acid except____.
○ Acid Halides ○ Nitrile
● Alkyl Halides ○ Ester

16) Gem-Diol is the product of acid/base catalyzed reaction of water with____.
● Aldehyde/ketone ○ Carboxylic acid
○ Alcohol ○ Ether

17) In Williamson's synthesis____pair of reactants, react with each other to form ether.
○ R-OH and Na ○ R-OH and R-Mg-X
● R-OH and R-O $Na^+$ ○ R-OH and R-OH

18) Lucas reagent is____.
○ R-OH and HCl ● HCl and $ZnCl_2$
○ R-OH and $ZnCl_2$ ○ None of these

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