

Sig. of Supdt.

KT-XII-14(A)
CHEMISTRY - (Part-II)

Roll No.

Fic. No.....

Fic. No.....

Time Allowed : 3 Hrs.

Total Marks : 85

Note: There are three sections of this paper, A, B, & C. Carefully read the instructions for each section and attempt accordingly.

Time Allowed : 20 Mins.

SECTION - A

Total Marks : 18

Note: Use this sheet for this section. No. mark will be awarded for cutting, erasing or over writing.

Q. 1 Insert the correct option (a, b, c, d) in the empty box opposite to each part. Each part carries one mark. Any kind of Mark Left / Written is strictly prohibited. Mobile Phone is strictly prohibited in Examination Hall.

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|--------|--|--|--|---------------------------------------|---|----------------------|
| i) | Which one does not form its oxy acids | (a) Bromine | (b) Iodine | (c) Fluorine | (d) Chlorine | <input type="text"/> |
| ii) | Secondary alcohol on oxidation gives..... | (a) Ketone | (b) Ether | (c) Aldehyde | (d) None | <input type="text"/> |
| iii) | Epoxy resins are basically..... | (a) Polyethers | (b) Polyamides | (c) Polyamine | (d) Polyester | <input type="text"/> |
| iv) | Metal oxides are in nature | (a) Amphoteric | (b) Neutral | (c) Acidic | (d) Basic | <input type="text"/> |
| v) | is used for preparation of plaster of paris | (a) Feldspar | (b) NaCl | (c) Lime | (d) Gypsum | <input type="text"/> |
| vi) | Quarz is crystalline form of | (a) Silicate | (b) Silicon dioxide | (c) Silicon | (d) Silicone | <input type="text"/> |
| vii) | BOD is used as index of Pollution. | (a) Solid | (b) Noise | (c) Air | (d) Water | <input type="text"/> |
| viii) | Fuel value of gasoline is expressed number | (a) Octane | (b) Decane | (c) Butane | (d) Hexane | <input type="text"/> |
| ix) | of the following is called sonchur. | (a) PbO | (b) PbCO ₃ | (c) Pb ₂ O | (d) Pb ₃ O ₄ | <input type="text"/> |
| x) | Which of the following involve same intermediate step? | (a) SN ₁ and E ₁ | (b) SN ₂ and E ₂ | (c) E ₁ and E ₂ | (d) SN ₁ and SN ₂ | <input type="text"/> |
| xi) | Process is used to locate the double bond in Alkene. | (a) Ozonolysis | (b) Hydration | (c) Bayear's reagent | (d) Hydroxylation | <input type="text"/> |
| xii) | Methyl alcohol is also known as | (a) Wood spirit | (b) Simple spirit | (c) Rectified spirit | (d) None | <input type="text"/> |
| xiii) | is used for ripening of fruits | (a) Methane | (b) Alkane | (c) Acetylene | (d) Ethane | <input type="text"/> |
| xiv) | Self addition reaction is known as | (a) Polymerization | (b) Isomerization | (c) Substitution | (d) None | <input type="text"/> |
| xv) | Benzene is consider polymer of | (a) Ethylene | (b) Ethane | (c) Acetylene | (d) None | <input type="text"/> |
| xvi) | Urea is | (a) Amino acid | (b) Acidhalide | (c) Amide | (d) Ester | <input type="text"/> |
| xvii) | Tollen test is used for identification of | (a) Ketone | (b) Ethene | (c) Alcohol | (d) Aldehyde | <input type="text"/> |
| xviii) | According to Lewis concept ether behaves as | (a) Base | (b) Amphoteric | (c) Acid | (d) Both "A" & "B" | <input type="text"/> |

KT-XII-14(A)
CHEMISTRY - (Part-II)

Time Allowed : 2:40 Hrs.

Total Marks : 67

Section – B

Marks : 40

Note : Mobile Phone is strictly banned in Examination Hall.

Q. 2 Write a short answer of any TEN of the following parts. Each part carries equal marks.

- (i) What are hydrides?
- (ii) What do you know about semi conductors?
- (iii) What is peculiar behavior of beryllium?
- (iv) Explain acid rain and smog.
- (v) Discuss the properties of transition elements?
- (vi) What are ligands?
- (vii) Explain Markownikoff's rule by giving example.
- (viii) How aldehydes and ketones are differentiated ?
- (ix) Explain acidic properties of phenol.
- (x) Write industrial preparation of acetic acid.
- (xi) Explain cis-trans isomerism?
- (xii) What do you know about nucleic acids?
- (xiii) Explain elimination reaction in alkyl halide.

Section – C

Marks : 27

NOTE : Attempt any three questions of the following each question carries equal marks.

- Q. 3**
- a) Explain contact process for the preparation of sulphuric acid.
 - b) Write down the reaction of Cl_2 with the following.
 - i) P ii). H_2S iii) NH_3 iv) NaOH (cold)
- Q. 4**
- a) Explain working and function of Down's cell?
 - b) How and under what conditions does aluminium react with?
 - i) Oxygen ii). Chlorine iii). Hydrochloric acid iv). NaOH
- Q. 5**
- a) What do you know about Nucleophilic substitution reaction. Explain SN^1 and SN^2 reaction by giving mechanisms ?
 - b) Write the reaction of acetylene with following.
 - i). HCl ii). H_2O iii). Cl_2 iv). H_2
- Q. 6**
- a) Explain effect of substituent on further substitution on benzene.
 - b) Write down the chemical properties of aldehydes.