

SAMPLE PAPER ENTRY TEST
PAPER CHEMISTRY- CLASS 1st YEAR

Time-1 Hour

Total Marks = 50

Instructions

- All questions are compulsory.
- No marks will be awarded in case of cutting, over writing or use of lead pencil.
- Use of calculator is allowed.
- Failing to abide by the following instructions will result in disqualification of the candidates:
 - Roll No will be written on first page of the answer sheet.
 - No identification marks e.g. drawing, signatures etc.will be marked on answer sheet.
 - Paper will be attempted with blue ink. Black marker may be used for headings only.

Q.1 Encircle the correct option i.e. A / B / C / D. Each part carries one mark. (1×10=10)

- i. Deficiency of Vitamin D causes
 - a. Rickets
 - b. Scurvy
 - c. Anemia
 - d. Cancer
- ii. Which among the following is a Lewis Base?
 - a. NH_3
 - b. BF_3
 - c. H^+
 - d. NH_4Cl
- iii. Which among the following is key component of natural gas?
 - a. Propane
 - b. Methane
 - c. Propyne
 - d. Butane
- iv. Which among the following is a saturated hydrocarbon?
 - a. Propane
 - b. Calcium Chloride
 - c. Glucose
 - d. Propene
- v. Which among the following is a disaccharide?
 - a. Fructose
 - b. Glucose
 - c. Starch
 - d. sucrose
- vi. Which among the following decreases the acidity of rain water?
 - a. SO_3
 - b. NO_2
 - c. SO_2
 - d. CO_2
- vii. The permanent hardness of water is caused by:
 - a. NaHCO_3
 - b. Na_2CO_3
 - c. CaSO_4
 - d. CaHCO_3
- viii. Which functional group is present in Alkyl Halide?
 - a. RX
 - b. CHO
 - c. CO
 - d. COOH
- ix. The reaction between acid and base produces
 - a. Glucose
 - b. Salt and water
 - c. Urea
 - d. Methane
- x. Which of the following contains protein?
 - a. Potato
 - b. Grains
 - c. Fruits
 - d. Eggs

Q.2 Fill in the blanks

(1×10=10)

- i. When the value of Kc is large in a chemical reaction. It reaches to _____
- ii. pH scale is _____ of H^+ ions concentration

- iii. The general formula of alkanes is _____.
- iv. The number of basic amino acids is _____
- v. The pH of acid rain is less than _____.
- vi. Organic compounds contain _____ bond.
- vii. Hard water does not form _____ with soap.
- viii. Metallurgy is a technique that is used to extract a metal from its _____.
- ix. The general formula of alcohols is _____.
- x. Ketones contain _____ functional group.

Q.3 Tick (✓) for true and (X) for false.

(1×10=10)

- i. Acid gives H⁺ ions in aqueous solution.
- ii. Apple plants grow successfully at a pH range of 5.5 to 7.0.
- iii. Phenolphthalein has pink colour in Acidic Solution.
- iv. Methane is a saturated organic compound.
- v. Molecular Formula shows actual number of atoms in the molecule.
- vi. OH group is found in Alcohols
- vii. The general formula of carbohydrates is CHO.
- viii. The first member of alkanes is methane.
- ix. Fatty acids are the building blocks of lipids.
- x. Troposphere is found 0 -10 km above the surface of earth.

T	F
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T	F
T	F
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T	F
T	F

Q.4 Write short answers of the following.

(2×5=10)

- i. What is chemical equilibrium?

(2)

- ii. Give the reaction of ethene with KMnO₄ solution.

(2)

- iii. What is DNA fingerprinting?

(2)

- iv. Define a functional group with example.

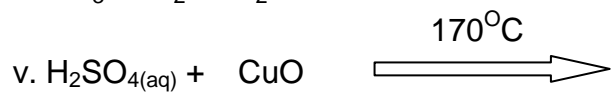
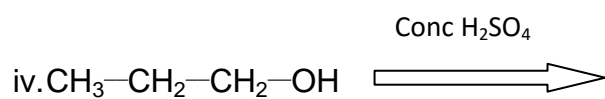
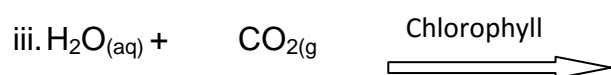
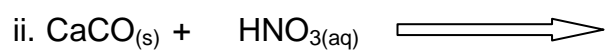
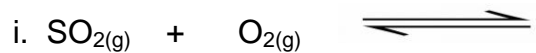
(2)

- v. Write the condensed formulae of caproic acid and stearic acid.

(2)

Q.5 Complete and balance the following reactions.

(2×5=10)



LAHORECAFFEE.PK