

CHEMISTRY

Time: 3 Hours

Model I

Max. Marks: 60

Section A: It consists of 12 Multiple Choice Questions (MCQs) and all of them are to be answered.

Section B: It comprises of 15 Short Answer-Questions of which 10 questions are to be answered.

Section C: It comprises of 05 Descriptive Answer-Questions of which 03 questions are to be answered.

Section "A"

Time: 30 Min.

Multiple Choice Questions (MCQ's)

Marks: 12

NOTE:

- (i) Attempt all the questions of this Section.
 - (ii) Do not copy down the part questions. Write only the answer against the proper number of the question and its part according to the question paper.
 - (iii) Each question carries 1 mark.
 - (iv) Write the code of your question paper in bold letters in the beginning of the answer script.
1. Choose the correct answer for each question from the given option:
 1. The branch of Chemistry which deals with hydrocarbons:
 - (a) Industrial chemistry
 - (b) Inorganic chemistry
 - (c) Organic chemistry
 - (d) Physical chemistry
 2. If proton number is 19, electron configuration will be:
 - (a) 2, 8, 9
 - (b) 2, 8, 8, 1
 - (c) 2, 8, 1
 - (d) 2, 8, 3
 3. 4th and 5th period in periodic table are known as:
 - (a) Short period
 - (b) Long period
 - (c) Normal period
 - (d) Very long period
 4. Number of electrons lost by atoms of group IIIA equals:
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
 5. Oxygen belongs to group VIA so number of electrons in its valence shell are:
 - (a) 3
 - (b) 4
 - (c) 5
 - (d) 6
 6. The mobility of liquids is lesser than:
 - (a) Solids
 - (b) Gases
 - (c) Bose Einstein Condensate
 - (d) Plasma
 7. Molarity of a solution which is prepared by dissolving 40g sodium chloride in 500cm³ of solution is:
 - (a) 1.4M
 - (b) 1.5M
 - (c) 1.33M
 - (d) 1.33M

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8. In Daniel cell _____ is used as a cathode.

- (a) Zn
- (b) Cu
- (c) Sn
- (d) Pb

9. Which gas can turn lime water milky?

- (a) O₂
- (b) NO₂
- (c) CO₂
- (d) N₂

10. Which compound is known as lunar caustic?

- (a) KNO₃
- (b) AgNO₃
- (c) NaOH
- (d) NaNO₃

11. Which one is correct statement:

- (a) Oxidation occurs at cathode
- (b) Reduction occurs at anode
- (c) Reduction occurs at cathode
- (d) Ions lose electrons at cathode

12. What is the particle size in suspension?

- (a) 10³ nm
- (b) 10² nm
- (c) less than 10³ nm
- (d) greater than 10³ nm