

## CHEMISTRY PAPER 1 (THEORY)

*Maximum Marks: 70*

*Time Allowed: Three hours*

*Candidates are allowed additional 15 minutes for only reading the paper.  
They must NOT start writing during this time.*

*This paper is divided into four sections – A, B, C and D.*

*Answer all questions.*

*Section A consists of one question having sub-parts of one mark each.*

*Section B consists of ten questions of two marks each.*

*Section C consists of seven questions of three marks each, and*

*Section D consists of three questions of five marks each.*

*Internal choices have been provided in one question each in Section B,*

*Section C and Section D.*

*All working, including rough work, should be done on the same sheet as, and adjacent to the rest of the answer.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

*Balanced equations must be given wherever possible and diagrams where they are helpful.*

*When solving numerical problems, all essential working must be shown.*

*In working out problems, use the following data:*

*Gas constant  $R = 1.987 \text{ cal deg}^{-1} \text{ mol}^{-1} = 8.314 \text{ JK}^{-1} \text{ mol}^{-1}$*

*$= 0.0821 \text{ dm}^3 \text{ atm K}^{-1} \text{ mol}^{-1}$*

*$1 \text{ l atm} = 1 \text{ dm}^3 \text{ atm} = 101.3 \text{ J}$   $1 \text{ Faraday} = 96500 \text{ coulombs}$ .*

*Avogadro's number  $= 6.023 \times 10^{23}$ .*

### SECTION A – 14 MARKS

#### Question 1

- (A) Fill in the blanks by choosing the appropriate word(s) from those given in the [4×1]  
brackets:

[stable, low, aldehyde, unstable, 6, 4, ethane, Clemmensen's, 2, 3, carboxylic acid, high, propane, Rosenmund's]

- (i) The primary alcohols are easily oxidised first into \_\_\_\_\_ and then into \_\_\_\_\_.
- (ii) The intermediate activated complex in a chemical reaction is highly \_\_\_\_\_ due to \_\_\_\_\_ energy.
- (iii) The coordination number and oxidation state of the complex  $\text{K}_4[\text{Fe}(\text{CN})_6]$  are \_\_\_\_\_ and \_\_\_\_\_ respectively.
- (iv) Propanone on reaction with zinc-amalgam in presence of conc. HCl gives \_\_\_\_\_ and the reaction is known as \_\_\_\_\_ reduction.

This Paper consists of 8 printed pages.

Turn over

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