

## SAMPLE QUESTIONS

*N.B. The following questions are only indicative in nature. The actual questions may not be limited to only following topics.*

General Knowledge:

1. The density of water is maximum at  
(A) 0°C                      (B) 2°C                      (C) 100°C                      (D) 4°C

English:

1. Facilitate means the same as to  
(A) pretend                      (B) congratulate                      (C) make easy                      (D) create

Reasoning:

1. Parrot is to Bird as Potato is to  
(A) Eat                      (B) Vegetable                      (C) Ground                      (D) Round

Numerical Aptitude:

1. Which one of the following fraction is greater than  $\frac{3}{7}$  ?  
(A)  $\frac{2}{3}$                       (B)  $\frac{2}{5}$                       (C)  $\frac{6}{19}$                       (D)  $\frac{5}{13}$                       (E) None of these

Electrical:

1. Power factor of an electric system may be improved by  
(A) an underloaded induction motor.                      (B) a synchronous motor with under-excitation.  
(C) a tap changing transformer                      (D) a synchronous generator with over excitation  
(E) a synchronous motor with over excitation

Mechanical:

1. Herring bone gears are used when it is required that a/an  
(A) axial thrust is transmitted                      (B) radial thrust is transmitted                      (C) torque is transmitted  
(D) None of the above

Metallurgy:

1. The magnaflux process can be used to detect cracks in  
(A) Brasses                      (B) Aluminium alloy                      (C) Common steels                      (D) Austenitic steel                      (E) None of these

Chemical:

1. Calcium carbide is prepared from quick lime and carbon at  
(A) 1000°C                      (B) 500°C                      (C) 1500°C                      (D) 2000°C                      (E) 3000°C

Information Technology:

1. In a typical byte oriented computer system, core size of 512 KB stands for  
(A) 512000 bytes                      (B) 504280 bytes                      (C) 524288 bytes                      (D) None of these

Civil:

1. A simply supported reinforced concrete T-beam bridge is adopted for spans upto  
(A) 5 m                      (B) 15 m                      (C) 50 m                      (D) 25 m

B.Sc. Chemistry:

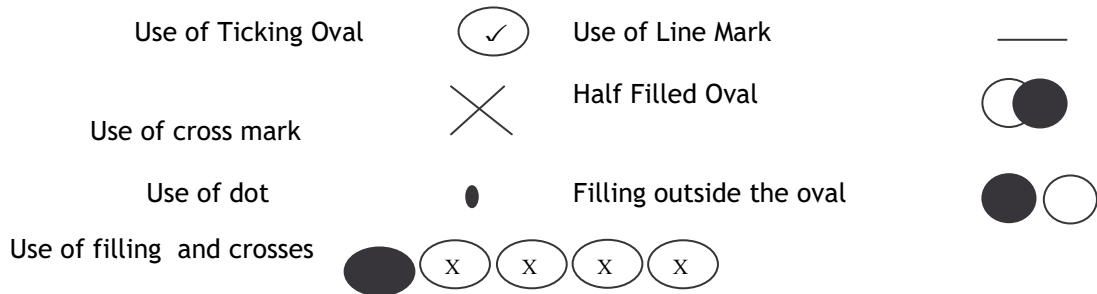
1. Ethyl alcohol reacts with iodine in presence of an alkali giving  
(A) Ethyl iodide                      (B) Tri-iodo methane                      (C) Ethylene di-iodide                      (D) None of these

## INSTRUCTIONS TO THE CANDIDATES

- The Test will be objective in nature (3 hr duration and continuous in nature) and for each question, several suggested answers will be given of which **ONLY** one answer will be correct. The questions will comprise of a) General Aptitude and b) Respective Discipline
- The Answer Sheet will be mechanically scored and therefore requires specific procedure to be followed as given below:
  - The answers should be marked only by **Blue/Black Ball Point Pen Only**
  - Each question will be followed by answers marked like (A) (B) (C) (D). Select the most appropriate answer. Then using pen darken (●) the oval bearing the correct index against the serial number of the question on the answer sheet. For example, if the answer to the question number 2 is C, it is to be marked as follows:

2.  A  B  C  D

- Some **wrong methods** of marking answers (**Please DO NOT Use any of them to answer**)



In all the above ways of answering, even if have selected the right answer, it may not be read because of being the wrong method of marking the answer.

- To **change your answer ERASE completely** the already darkened oval using a good quality pen eraser and then darken the new oval bearing your revised answer.
- While changing the answer, it is essential to erase the earlier answer completely. If it is not erased completely, smudges will be remain on the erased oval and the question will be read as having two answers and will be ignored for giving any credit.

### SOME IMPORTANT POINTS

You **MUST WRITE YOUR ROLL NO, QUESTION BOOKLET NO ETC., CORRECTLY BY FILLING CORRECT OVALS WITH BLUE/BLACK BALL POINT PEN IN THE ANSWER SHEET.**

You are advised to bring with you the following things:

- Two **BLUE/BLACK Ball Point Pen**, a good quality pen eraser,
  - ADMIT CARD** for the written test
- Your answer sheet may not be assessed if you:
    - use any method of marking your answer other than darkening the ovals
    - do not write all the information required on the answer sheet
    - do not carefully handle your answer sheet
    - do not use ball point pen to mark on the answer sheet.
  - Follow the instructions given by the invigilator. When the invigilator asks you to start or to stop a test or a section of a test, do follow his/her instructions immediately. This is very important.
  - You are not permitted to take scratch or rough paper, scales or drawing instruments or calculators or mobile phones into the examination home. Do your rough work in the margin of the question booklet itself.
  - After finishing the test, submit both the admit card ; question booklet and OMR Sheet.**
  - There will be **NEGATIVE MARKING** (0.25 marks will be deducted for every wrong answer)for the wrong answer.