

C16-EC/CHPC/PET-104

6030

BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL—2018 **DECE—FIRST YEAR EXAMINATION**

ENGINEERING CHEMISTRY AND **ENVIRONMENTAL STUDIES**

Time: 3 hours] [Total Marks: 80

PART—A

 $3 \times 10 = 30$

Instructions: (1) Answer **all** questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- **1.** Draw the shapes of *spd* orbitals.
- 2. Write the electronic configuration of chromium and copper.
- **3.** Define the terms 'solution', 'solute' and 'solvent'.
- **4.** Find the pH of 0.001 N HCl solution.
- **5.** Define (a) electrochemical equivalent and (b) chemical equivalent.
- **6.** State the three essential qualities of drinking water.
- 7. Define the term 'plastics' and mention their types.
- **8.** Define fuel. Write any two characteristics of good fuel.
- **9.** Define (a) particulates, (b) contaminant and (c) pollutant.
- **10.** Write a short note on Greenhouse effect.

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 $10 \times 5 = 50$

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