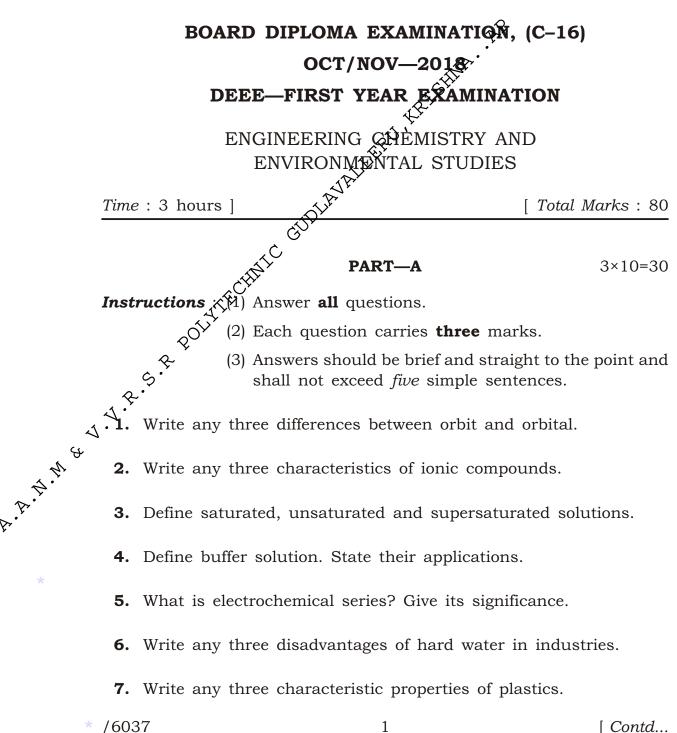


С16-ЕЕ-104/С16-СНРР-104

## 6037



8. Define primary and secondary fuels. Give examples.

- 9. Write any three threats to biodiversity.
- 10. Write a short note on greenhouse effect.

**Instructions** : (1) Answer any five questions.

- (2) Each question carries ten marks.
- (3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 11. (a) Explain:
  (i) Aufbau's principle
  (ii) Hund rule with suitable examples
  - (b) Define unit cell. Draw the structures of unit cell of NaCl and CsCl.
- **12.** (a) Define Normality. Calculate the normality of 250 ml of solution containing 9.8 grams  $H_2SO_4$  (M. Wt of  $H_2SO_4$  98)
  - (b) Explain Lewis theory of acids and bases.
- **13.** (a) Write any five characteristics of metals.
  - (b) Explain purification of metals by electrolytic refining.
- **14.** (*a*) Explain the construction and working of galvanic cell with neat diagram.
  - (b) Explain Faraday's Laws of electrolysis.
- **15.** (*a*) What is rusting of iron? Explain the rusting of iron with chemical equations.
  - (b) Explain impressed voltage method.

\* /6037

2

\$. \$. \$.

[ Contd...