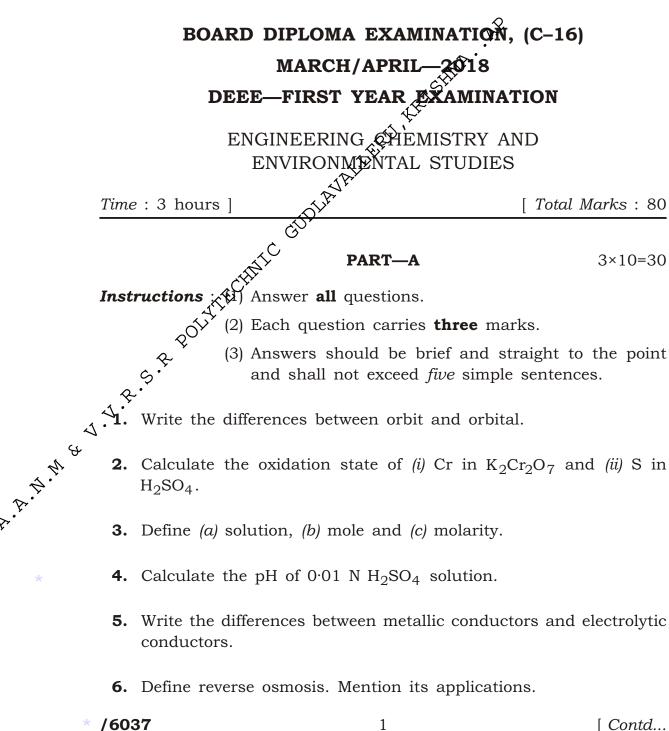


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- 7. (a) Define polymerization.
 - (b) Write the structure of natural rubber.
- 8. Mention the composition and uses of (a) water gas and (b) natural gas.
- 9. Write a short note on acid rain.
- 10. Define (a) receptor, (b) sink and (c) pollutation.

10×5=50

PART—B Instructions : (1) Answer any **five** questions. (2) Each question

- (2) Each question arries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

| | | | \bigcirc | |
|---|-------------|----------|--|---|
| | 11. | (a) | Write limitations of Bohr's theory. | 3 |
| * | | (b) | Explain the formation of ionic bond in NaCl. | 5 |
| | | (c) | Define covalent bond. Give two examples. | 2 |
| | 12. | (ak | $\Sigma(i)$ Define molarity and (ii) Calculate the molarity of 10.6 gm | |
| | 0 | ંડું | of Na_2CO_3 present in 2 lt of solution. | 5 |
| | 1. | , (b) | Explain the concept of Lewis acid and bases with examples. | 5 |
| | 13 . | (a) | Explain the following terms : | 6 |
| | | | (i) Metallurgy(ii) Gangue(iii) Flux | |
| | | (b) | Give the composition and two uses of <i>(i)</i> brass and <i>(ii)</i> German silver. | 4 |
| | 14. | (a) | Write the differences between galvanic cell and electrolytic cell. | 5 |
| | | (b) | Explain electrolysis of fused NaCl with a diagram and relevant chemical equations. | 5 |
| | | | | 1 |

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[Contd...

| * 15. | (a) | Explain sacrifical anode method of prevention of corrosion. | 5 |
|----------|-----|---|---|
| | (b) | Explain the mechanism of rusting of iron with chemical equations. | 5 |
| 16. | (a) | State the disadvantages of using hard water in industries. | 5 |
| | (b) | Describe ion-exchange process of softening of hard water. | 5 |
| 17. | | Distinguish between thermoplastics and thermo-setting plastics. | 5 |
| | (b) | Write the characteristics of vulcatized rubber. | 5 |
| 18. | (a) | Explain any five causes of air pollution. | 5 |
| | (b) | Explain the effects of water pollution on living and non-living things. | 5 |
| A.A.M.M. | S. | 2 POLYMECTINE CUPL *** | |
| | | Explain the effects of Water pollution on living and non-living things. | |

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