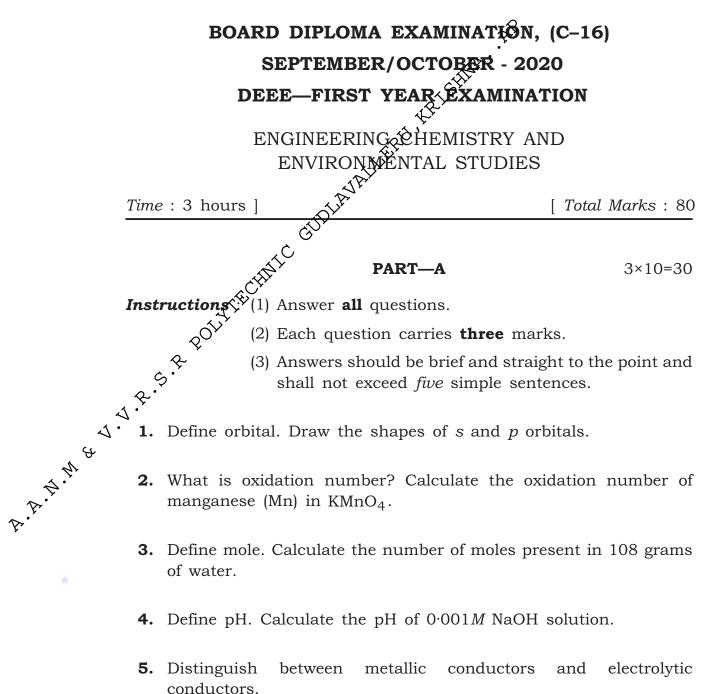


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- 6. Write any three essential qualities of drinking water.
- **7.** What are the advantages (any three) of plastics over traditional materials?
- 8. Classify the fuels based on their occurrence and physical state with examples.
- **9.** Define the terms (a) producers, (b) consumers and (c) decomposers with examples.
- 10. What is acid rain? Mention its impacts.

10×5=50

Instructions : (1) Anewer any five questions.

(2) Each question carries **ten** marks.

PART-B

3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. \$(a)	Write any five important postulates of Bohr's theory.	5
ع. ۲۰۰ (b)	Write any five differences between properties of ionic compounds and covalent compounds.	5
	Define normality. Calculate the normality of a solution containing 10.6 grams of Na ₂ CO ₃ in 500 ml solution.	5
(b)	Describe Arrhenius theory of acids and bases with examples.	5
13. (a)	Explain froth flotation process for concentration of a sulphide ore.	ں 5
<i>(b)</i>	Define the terms (i) gangue, (ii) mineral, (iii) ore, (iv) flux and (v) slag with examples.	5
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14. (*a*) What is a galvanic cell? Explain working of a galvanic cell. 5 (b) State Faraday's first law. Calculate the weight of silver deposited at cathode when 5 amperes of current is passed through AgNO₃ solution for 2 minutes. (Atomic weight of Ag=108) 5 Explain mechanism of rusting $\sqrt{2}$ iron with chemical **15.** (a) 5 equations. anode method for (b) Explain sacrificial of prevention corrosion. 5 Explain ion-exchange process for softening of hard water **16.** (a) with a neat diagram. 6 reverse osmosis? Write any three applications of (b)reverse osmosis. 4 What is vulcanization of natural rubber? Write any four A.A. properties of vulcanized rubber. 6 (b) Define and explain condensation polymerization with an example. 4 18. (a) Define water pollution. What are the causes for water pollution? 6 biodiversity? Write (b) What is any three threats of biodiversity. 4

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