

C16-EE-105

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BOARD DIPLOMA EXAMINATEON, (C-16) SEPTEMBER/OCTOBER - 2020 DEEE-FIRST YEAR ÉXAMINATION ELECTRICAL ENGENEERING MATERIALS *Time* : 3 hours Total Marks: 80 PART-A 3×10=30 , kật Instructions : Answer **all** questions. Each question carries three marks. (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences. S List the properties of copper. State the applications of ACSR conductors. 2. Define extrinsic semiconductors and give examples. 3. State the properties of PVC. 4. **5.** List the properties of impregnated paper. 6. Define relative permittivity. 7. Define the terms 'magnetic flux density' and 'MMF'. 8. List the special purpose materials. 9. Distinguish between primary and secondary cells. **10.** Define trickle charging.

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PART-B

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

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

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