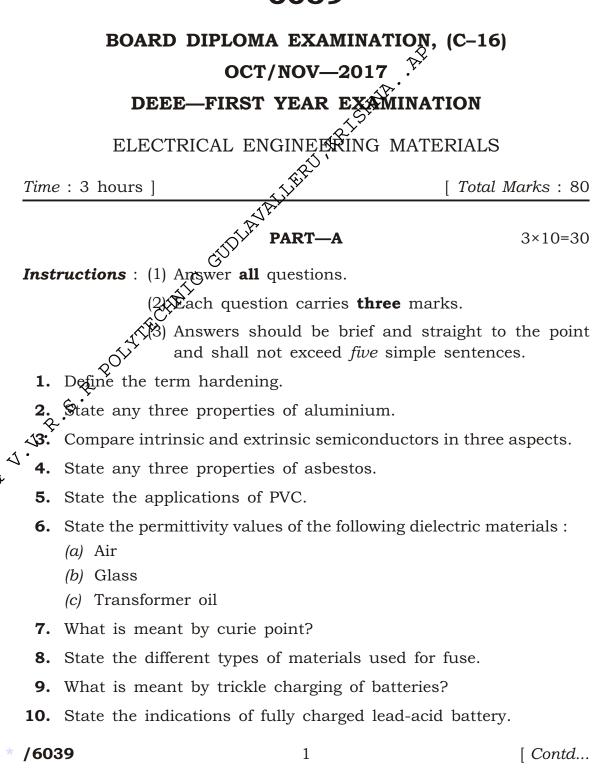


C16-EE-105

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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. R

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	11.	(a) State the properties and applications of carbon.	5
		(b) Explain the colour coding of resident as per BIS.	5
	12.	(a) State the properties and applications of tungsten.	5
		(b) List the differences between copper and aluminium.	5
	13.	(a) Explain the formation of N-type semiconductor.	5
A.A.		(b) Explain polarization in dielectric materials.	5
	14.		10
	15.	Explain soft magnetic materials and hard magnetic materials.	10
	16 ₂	(a) Explain the working of thermocouple and state the materials used.	5
	7.	(b) State the need for protective materials and list the properties of lead.	5
P	17.	Explain the construction and working of lead-acid battery.	10
	18.	(a) State the factors affecting the capacity of a cell.	4
*		 (b) Calculate the ampere-hour and watt-hour efficiencies for an accumulator, which is charged for 8 hours at 30 amp at an average voltage of 1.2 volt, and discharged at 24 amp for 9 hours at an average voltage of 1.1 volt. 	6

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