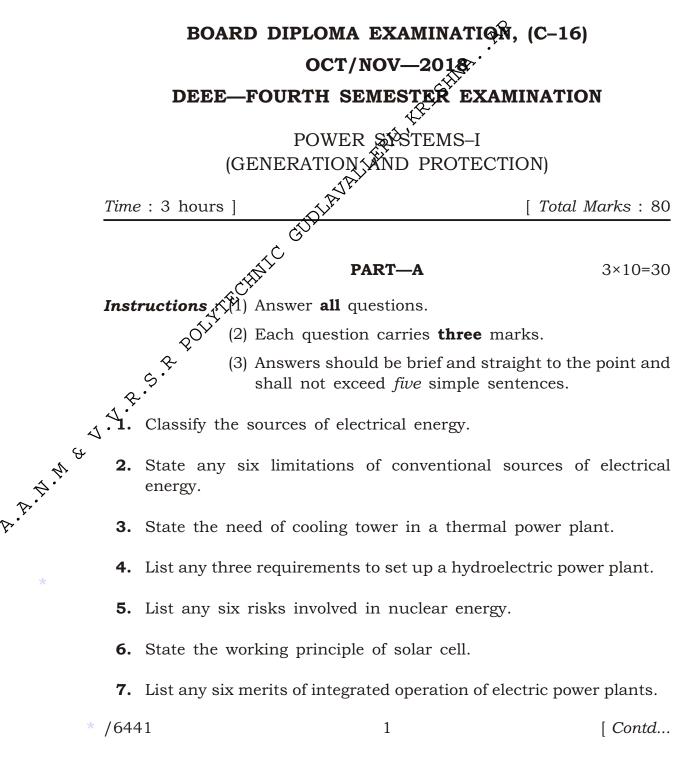


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- **8.** State any three factors responsible for arc formation in a circuit breaker.
- 9. List any six probable faults that occur in an alternator.
- **10.** List any six types of relay.

Instructions : (1) Answer any five questions,

- (2) Each question carries den marks.
- (3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** Explain the factors affecting the selection of site for a thermal power plant.
- **12.** Explain the working of high head hydroelectric power plant with a line diagram
- **13.** Explain the working of a nuclear reactor with a diagram.
- 14. Expland the constructional details of a wind mill power plant.
- 15. A consumer takes a steady load of 200 kW at a p.f. of 0.8 lag for
 10 hours per day and for 300 days per annum. Estimate the
 annual payment under each of the following tariff.
 - (a) Rs. 100 per annum per KVA plus 10 paise/kWh
 - (b) Rs. 100 per annum per kW plus 2 paise/VARh plus 10 paise/kWh.
- **16.** Explain the working of a SF6 circuit breaker.
- **17.** Explain the differential protection scheme of a transformer.
- **18.** (a) Compare two-part tariff with power factor tariff in any five aspects.
 - (b) Explain the scheme of surge protection with a diagram.

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