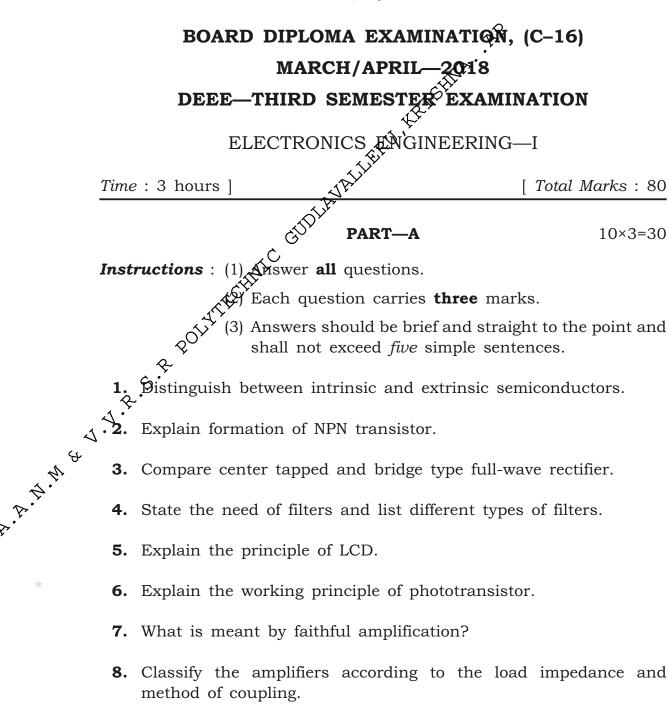


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- **9.** Give the differences between degenerative and regenerative feedbacks.
- 10. Draw the block diagrams of current series feedback amplifiers.

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.
- **11.** Draw the circuit and explain the transistor in CE configuration with the help of input and output characteristics.
- **12.** Explain the working of center-tapped full-wave rectifier with circuit diagram and waveforms.
- **13.** Explain the construction and working of UJT with characteristics.
- **14.** Explain the construction and working of FET with characteristics.

 $\sqrt{15}$. Explain the method of self-bias and list the advantages.

16. (a) Explain the transistor as an amplifier.

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- (b) Define the term gain in terms of decibel and bandwidth. 4
- **17.** Explain the working of transformer coupled amplifier with neat circuit diagram and draw its frequency response.
- **18.** Draw the circuit diagram of emitter follower and explain its working and list the applications.

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