

Total No. of Questions : 4]

SEAT No. :

P-5242

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[6188]-197

B.E. (E & TC) (Insem.)

**ELECTRONIC PRODUCT DEVELOPMENT
(2019 Pattern) (Elective-IV) (Semester-VII) (404185B)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q1 or Q2 and Q3 or Q4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume Suitable data if necessary.

Q1) a) Define and explain system engineering in product development. [8]

b) Explain the concept development and its six stages. [7]

OR

Q2) a) Explain product design development in detail. [8]

b) What is rapid prototyping and its advantages? [7]

Q3) a) Illustrate with neat diagram, common stages in prototyping of product design. [8]

b) Explain how to establish requirements for the circuit design and give some requirements that drive design. [7]

OR

Q4) a) Explain the importance of low power in circuit design and its advantages. [8]

b) Explain common reasons for product failure. [7]

