

Total No. of Questions : 8]

SEAT No. :

PA-2636

[Total No. of Pages : 2

[5927]-387

B.E. (E & TC)

ELECTRONIC PRODUCT DEVELOPMENT

(2019 Pattern) (Semester - VII) (404185B) (Elective - IV)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
- 5) Assume suitable data, if necessary.

- Q1)** a) Articulate software with reference to algorithmic, languages, methods, selection, and purchase. [8]
- b) Illustrate prototyping model and spiral model for software development.[9]

OR

- Q2)** a) What are the metrics to assess performance and progress? Explain. [8]
- b) What are software bugs introduced, how to locate and eliminate them.[9]

- Q3)** a) Explain different mechanisms used for cooling of electronic circuits.[9]
- b) What are the different types of PCB? Explain one. [9]

OR

- Q4)** a) Discuss about PCB partitioning Design Rules for EMC improvement.[9]
- b) Explain configurations of routing topologies in PCB layout designing.[9]

P.T.O.

Q5) a) Explain the steps of Debugging and techniques for trouble shooting and characterization. [9]

b) Explain Analog-Digital conversion in detail. [9]

OR

Q6) a) Explain techniques for Trouble shooting. [9]

b) State the important parameters to be considered while selecting passive, active and switching components. [9]

Q7) a) With the help of suitable example explain how the bill of material is prepared. [8]

b) Discuss about records, accountability and liability with respect to documentation. [9]

OR

Q8) a) Explain need of Layout of Documentation. What is proper Layout of Documentation? [8]

b) Explain with example what do you mean by preparation, presentation, and preservation of documents. [9]

