

Total No. of Questions : 8]

PC4424

SEAT No. :

[Total No. of Pages : 2

[6354]-537

B.E. (E & TC)

ELECTRONIC PRODUCT DEVELOPMENT

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

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 wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume Suitable data if necessary.

Q1) a) Describe traditional software lifecycle with reference to Waterfall Model. **[8]**

b) Illustrate prototyping model and spiral model for software development. **[9]**

OR

Q2) a) Explain the following terminologies. **[8]**

- i) Risk Abatement and Failure Preventions.
- ii) Software Bugs and Testing
- iii) Good Programming practice

b) Explain software design with any case study and design example. **[9]**

Q3) a) How can we improve reliability over failure in PCBs? **[9]**

b) Explain configurations of routing topologies in PCB layout designing. **[9]**

OR

P.T.O.

- Q4) a)** Interpret the role of proper component placement in PCB. [9]
b) Explain assembly and materials required with factors affecting on costing of PCB. [9]

- Q5) a)** Explain techniques for Trouble shooting. [9]
b) Define debugging process and explain steps of debugging. [9]

OR

- Q6) a)** Explain the following terms with example. [9]
i) Prototyping and Testing
ii) Integration
iii) Manufacturing
b) What are the different steps in the debugging? Differentiate debugging from troubleshooting. [9]

- Q7) a)** Explain with example what do you mean by preparation, presentation and preservation of documents. [8]
b) Write a short note on following: [9]
i) Layout of documentation
ii) Need of documentation

OR

- Q8) a)** What are the different methods of preservation of documents? Explain. [8]
b) Describe the need and types of documentation. [9]

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