

Total No. of Questions : 8]

SEAT No. :

P-6619

[Total No. of Pages : 2

**[6181]-182**

**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 wherever 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) Explain in detail Software Bugs and Testing? [8]  
b) What are the types of Software? Explain Traditional Software Life Cycle. [9]

OR

- Q2)** a) Explain Risk Abatement and Failure Preventions in Software Design and Testing Methods. [8]  
b) What are software bugs introduced how to locate and eliminate them. [9]

- Q3)** a) What is PCB? Elaborate PCB standards. What are the grounding Methodologies? [9]  
b) Define/explain the following terms associated with PCB design [9]  
i) Containment  
ii) Electromagnetic interference (EMI)  
iii) Electromagnetic compatibility (EMC)

OR

- Q4)** a) Explain configurations of routing topologies in PCB layout designing. [9]  
b) Explain [9]  
i) Power Conversion Choices  
ii) Power Distribution  
iii) Line Conditioning

P.T.O.

- Q5)** a) Explain Analog-Digital conversion in detail? [9]  
b) Compare Electromechanical, Active and Passive Components? [9]

OR

- Q6)** a) Explain techniques for Trouble shooting, of electronic device. [9]  
b) Write a note on Good Programming Practice. [9]

- Q7)** a) What do you mean by documentation? What are the different types of documentations? [8]  
b) Discuss about records, accountability and liability with respect to documentation. [9]

OR

- Q8)** a) What is concept of Bill of Material (BOM)? Explain with suitable example. [9]  
b) Write a short note on followings : [8]  
i) Layout of documentation.  
ii) Need of documentation.

