

Total No. of Questions : 08]

SEAT No. :

P3608

[Total No. of Pages : 2

[4959] - 1089

B.E. (Electronics and Telecommunication)

Electronic Product Design

(Semester - I) (Elective - IIB) (2012 Pattern)

Time : 2.30 Hours]

[Max. Marks : 70

Instructions to the candidates:-

- 1) *Attempt Q.No. 1 or Q.No. 2, Q.No. 3 or Q.No. 4, Q.No. 5 or Q.No. 6 and Q.No. 7 or Q.No. 8.*
- 2) *Figures to the right indicates full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable additional data if necessary.*
- 5) *Use of non programmable calculator is permitted.*

- Q1)** a) Explain five elements of successful design. [8]
b) Explain functional design and architectural design. Mention the difference between them. [8]
c) What is good programming practice. [4]

OR

- Q2)** a) Explain the importance of temperature, vibration and shock tests in electronic Product design. [6]
b) How the specifications are formulated. Explain difference between specifications and requirements. [8]
c) Explain waterfall model of software development. [6]

- Q3)** a) Explain routing topologies. What are the differences between the two Topologies? [10]
b) What are the grounding methodologies? Explain with suitable sketches. [8]

OR

P.T.O.

- Q4)** a) Write short notes on any two [8]
i) Image planes
ii) Functional Partitioning
iii) Aspect Ratio
b) What is a concept of critical frequency? Explain the concept of decoupling. [6]
c) Explain technique of ESD protection. [4]

- Q5)** a) Compare conducted EMI with Radiated EMI. [8]
b) What are electromechanical components? Explain any one of them. [8]

OR

- Q6)** a) What is debugging? Explain the steps of debugging. [8]
b) Explain Integration, validation and verification. [8]

- Q7)** a) What is need of documentation ? Explain different types of documentation. [8]
b) What is bill of material ? Explain with suitable example. [8]

OR

- Q8)** a) Explain the layout of documentation. [8]
b) How the documents are preserved. What are the methods to preserve? [8]

