

Total No. of Questions : 6]

SEAT No. :

P5153

[Total No. of Pages : 2

B.E./Insem. - 559

B.E. (E/TC) (Semester - I)

ELECTRONIC PRODUCT DESIGN

(2012 Pattern) (Elective -II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q.6.*
- 2) Figures to the right indicate full marks.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Assume suitable data if required.*
- 5) Use of non-programmable calculator is allowed.*

Q1) a) Explain the following terms - [6]

- i) Cognition
- ii) Reliability
- iii) Ergonomics
- iv) Quality

b) Explain the importance of vibration & shock test to be carried out on an electronic product with suitable example. [4]

OR

Q2) a) Explain the concept of user-centered design. [6]

b) What is the need of grounding? Briefly explain different types of grounding. [4]

Q3) a) What is prototyping? Discuss different types of prototyping indicating their advantages and drawbacks. [6]

b) Explain what do you understand by the term design reviews. [4]

OR

P.T.O.

Q4) a) Explain the design process of any one electronic product using neat block diagram. [6]

b) Discuss the methods of module debug & test. [4]

Q5) a) State the features of good programming. [4]

b) Explain the various phases of bug introduction & common bugs present in software. [6]

OR

Q6) a) Explain the term user interface wrt to software. [4]

b) Discuss any two with the help of neat diagram/schematic. [6]

i) Structured programming

ii) Coupling & cohension

iii) Documentation for software

