SEAT No. :

P5879

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BE/Insem./Oct.-554

B.E. (E & TC)

ELECTRONIC PRODUCT DESIGN (Elective - II)

(2015 Pattern) (Semester - I)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.*
2) *Neat diagram must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) a) Explain the importance of stages in electronic product design. **[6]**

b) Explain the importance of dry heat test and temperature cycling test for an industrial controller. **[4]**

OR

Q2) a) What is need of grounding, elaborate in detail the types of grounding. **[5]**

b) Discuss the five elements in successful design of product. **[5]**

Q3) a) Differentiate clearly, functional verses architectural models and specifications verses requirements. **[6]**

b) Elaborate the terms coupling and cohesion with respect to partitioning. **[4]**

OR

Q4) a) Explain in detail

i) black box test

ii) white box test and

iii) grey box test

[6]

b) Write in brief about functional design and egoless design. **[4]**

P.T.O.

Q5) a) What is role of software in user interface, elaborate in detail. **[5]**

b) What are the tools used for finding software faults in real time embedded system. **[5]**

OR

Q6) a) Explain water fall model of software development with suitable example. **[6]**

b) State in detail the features of good programming. **[4]**

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