Total No. of Questions : 6]

SEAT No. :

P236

[Total No. of Pages : 1

Oct./BE/Insem.-552

B.E. (E & TC)

ELECTRONIC PRODUCT DESIGN

(2015 Course) (Semester - I) (Elective - II)

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

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, and Q5 or Q6.***
2) ***Assume suitable data, if necessary.***
3) ***Figures to the right indicate full marks.***

Q1) a) Briefly explain the energy coupling mechanisms. **[5]**

b) Explain the importance vibration test and shock test conducted on electronic product. **[5]**

OR

Q2) a) Define ergonomics and state its objectives and design considerations. **[5]**

b) Discuss the concept of grounding and shielding with respect to electronic product design. **[5]**

Q3) a) Discuss the different types of prototyping with their advantages and disadvantages. **[5]**

b) What do you understand by partitioning and decomposing a system, explain with suitable example. **[5]**

OR

Q4) a) Discuss performance analysis and optimization with respect to embedded system design. **[6]**

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

Q5) a) What are software bugs introduced, how to locate and eliminate them. **[6]**

b) Discuss the risk abatement in software developments. **[4]**

OR

Q6) a) Explain features and limitations of simulators and emulators in embedded system softwares. **[5]**

b) List the different softwares used in electronic systems and explain criteria for their selection. **[5]**

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