

Code No: **R31121**

R10

Set No. 1

III B.Tech. I Semester Supplementary Examinations, October/November – 2016

SOFTWARE ENGINEERING

(Common to Information Technology and Electronics & Computer Engineering)

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Explain how the software nature is different from hardware with suitable diagram. [8M]
b) Is the software Engineering is an essential process? Explain. How to improve the quality of software? [7M]
- 2 a) Explain the five Software Assessment Principles. [8M]
b) Explain in detail about the Software Process. [7M]
- 3 a) Define Interface. Discuss various types of Interfaces. Give examples for each. [8M]
b) Explain in detail about the Design Concepts. [7M]
- 4 a) Differentiate between Function- Oriented and Object- Oriented design methods. [8M]
b) State the design principles suggested by Mayer for OOD. [7M]
- 5 a) Compare Conventional Approach with Object Oriented Approach in Software Development. Discuss the advantages of Object Oriented Analysis and Design. [8M]
b) What are the elements of Analysis model? What are the elements of design model? How the Architecture Design can be represented? [7M]
- 6 a) What is Coupling? What are the various types of Coupling? [8M]
b) Distinguish between Generic Risks and Product Specific Risks. [7M]
- 7 a) Discuss about Software Tools for Project and Process Metrics. [8M]
b) Discuss about Function-oriented metrics. [7M]
- 8 a) What is Software Quality Assurance (SQA)? What are its goals and objectives? Explain. [8M]
b) What is a Cohesive module? Discuss about different types of Cohesion? [7M]

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