

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER V –EXAMINATION – SUMMER 2018**

**Subject Code: 650001****Date:30/04/2018****Subject Name: Software Engineering****Time: 10:30AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write short notes on : **07**  
i. Debugging Process  
ii. Quality Function Deployment (QFD)
- (b) Write a short note on Incremental Process Model. How does it differ from prototype evolutionary process model? **07**
- Q.2** (a) Distinguish between the following : **07**  
(i) Cohesion and Coupling (ii) Architectural Style and Architectural Pattern
- (b) What is requirement engineering? Describe the seven distinct tasks encompassed in requirement engineering. **07**
- OR**
- (b) What is modularity in software design? How does it affect the software cost? **07**
- Q.3** (a) List three golden rules of user interface design. Explain each golden rule in detail. **07**
- (b) i. Write a short note on Formal Technical Review (FTR) (4) **07**  
ii. Agility Principles (3)
- OR**
- Q.3** (a) Explain Component-level design for traditional software components. **07**
- (b) What is design in the context of web engineering? Explain the Web design pyramid. **07**
- Q.4** (a) Explain how the requirements model can be transformed into design model. **07**
- (b) List and explain the four steps of User Interface Design. **07**
- OR**
- Q.4** (a) List the metrics used for requirement modeling. Explain function point metric with example. **07**
- (b) What do you understand by empirical estimation models? Explain COCOMO II model giving suitable example. **07**
- Q.5** (a) What is white box testing? Why it is required? Discuss different techniques of it? **07**
- (b) What is an architectural style? Explain the categories of architectural styles in detail. **07**
- OR**
- Q.5** (a) Explain Equivalence Partitioning and Boundary Value Analysis of Black-Box Testing. **07**
- (b) Explain aesthetic design and content architecture of content design for Web App design. **07**

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