



# SOFTWARE ENGINEERING

MAY 2019

Computer Engineering (Semester 6)

**Total marks: 80**

**Total time: 3 Hours**

## INSTRUCTIONS

- (1) Question 1 is compulsory. (attempt any **four**)
- (2) Attempt any **three** from the remaining questions.
- (3) Draw neat diagrams wherever necessary.

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| 1.a. Differentiate in between waterfall and spiral model.                                       | (5 marks)  |
| 1.b. List out Requirement Elicitation Techniques. Explain any two methods.                      | (5 marks)  |
| 1.c. What is process and project metrics? Explain 3 P's of software Engineering.                | (5 marks)  |
| 1.d. Illustrate design issues.  | (5 marks)  |
| 1.e. Explain FTR.   | (5 marks)  |
| 1.f. What is testing? What is the role of testing in software engineering?                      | (5 marks)  |
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| 2.a. Develop the SRS for University Management System.  | (10 marks) |
| 2.b. Explain the process of CMM.  | (10 marks) |
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| 3.a. Explain Coupling and Cohesion? Explain the types of couplings with example.                | (10 marks) |
| 3.b. What are the testing strategies?   | (10 marks) |
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| 4.a. Differentiate between FP based & LOC based cost estimation techniques.                     | (10 marks) |
| 4.b. What is user interface design? Explain it with example.                                    | (10 marks) |
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| 5.a. What is maintenance? Explain the different types of maintenance.                           | (10 marks) |
| 5.b. What is the use of use case diagram? Draw use case diagram for hospital management system. | (10 marks) |
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| 6.a. Differentiate between White Box and Black Box Testing.                                     | (10 marks) |
| 6.b. Illustrate Change Control & version control.   | (10 marks) |