

MCA (Revised)

Term-End Examination

05040

December, 2017

MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours

Maximum Marks : 100

(Weightage : 75%)

Note : *Question no. 1 is compulsory. Attempt any three questions from the rest.*

1. (a) Explain the factors affecting the task set for a project. 10
- (b) Describe the challenges for Component Based Software Engineering (CBSE). 10
- (c) Describe the COCOMO model in detail for software estimation. 10
- (d) Explain the process of developing wireless application using J2ME. 10

- 2. (a)** Define Version Control. With the help of an evolutionary graph, discuss the whole process of version control. *10*
- (b)** With reference to the software quality metrics, explain the following : *10*
- (i)** Defect Metrics
- (ii)** Maintainability Metrics
- 3. (a)** Explain the various levels of testing in detail. *10*
- (b)** Define Prototyping. Explain throw-away prototype and evolutionary prototype and describe for which kind of projects can one use these types of prototypes. *10*
- 4. (a)** Write a brief note about change control. *10*
- (b)** Write a detailed note on auditing and reporting. *10*
- 5. (a)** Explain the various steps in requirement engineering process. *10*
- (b)** Explain software reengineering with a diagram. *10*
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