

MCA (Revised)

Term-End Examination

00486

June, 2016

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) Define "Software Engineering". Illustrate various phases of Life cycle of Software Development. 12

- (b) Define Cohesion and Coupling. Explain various types in each of them. 8

- (c) What is Software Project Management ? Elaborate on COCOMO model. 10

- (d) What are CASE Tools ? With a suitable diagram, explain the categories of CASE Tools. 10

2. (a) Explain the following with examples :
- (i) Data Flow diagram 5
 - (ii) E-R diagram 5
- (b) Write a short note on Cyclomatic Complexity. 10
3. (a) With a neat diagram, explain Software Project estimation in detail. 10
- (b) Explain the various levels in SEI-CMM. 10
4. Write short notes on the following :
- (a) Version control 6
 - (b) Change control 6
 - (c) Base lines 8
5. (a) How is software development for mobile devices different from PCs ? 10
- (b) How is Software Configuration Management done in Software Development Process ? Explain. 10
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