

MCA (Revised)
Term-End Examination
December, 2015

02817

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 Review". What are the various types of Software Review ? Explain them. 10

- (b) Describe the COCOMO Model in detail with an example for Software Cost Estimation. 10

- (c) What is Prototyping Model ? What are the shortcomings in it ? What are the SDLC models which overcome these shortcomings ? 10

- (d) Explain any two project scheduling techniques with examples. 10

2. (a) Draw level-0, level-1 and level-2 DFDs for Grade Card Generation System. Make necessary assumptions. Mention the assumptions made. 10
- (b) Write the top level structure of SRS. 10
3. (a) Define “Software Quality” and “Software Reliability”. Is it possible to achieve both? Justify your answer. 10
- (b) What is meant by “Software Reengineering”? Explain the phases of Software Reengineering Life Cycle. 10
4. (a) What is Cyclomatic Complexity? How is it computed? Calculate Cyclomatic Complexity for the program to find the smallest of three numbers. 10
- (b) What are CASE Tools? List the features of any two CASE Tools. 10
5. (a) Explain the following testing techniques: 10
- (i) Unit Testing
- (ii) Stress Testing
- (b) Explain any one of the Risk Management Techniques. 10