

**MASTER OF COMPUTER APPLICATIONS
MCA (Revised)**

Term-End Examination

December, 2022

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 Component-Based Software Engineering. What are the different challenges faced for it ? 10
- (b) What is a DFD ? Draw DFDs until 3rd level for a "Student Admission System". Make necessary assumptions. 10
- (c) What are Project Metrics ? Explain various types of Project Metrics with examples. 10
- (d) Explain GSM architecture with the help of a diagram. 10

2. (a) What is a Formal Technical Review ? Who will participate in it ? What is the use of doing a Formal Technical Review ? 10
- (b) Briefly explain Cyclomatic Complexity. 10
3. (a) Explain various features that need to be considered for Function Point Analysis. 10
- (b) Explain COCOMO model with an example. 10
4. (a) Explain the process of auditing software and reporting it. 10
- (b) What is the purpose of Software Quality Assurance (SQA) ? Explain various processes of SQA. 10
5. (a) What is meant by “Baseline” ? How can it be changed ? 10
- (b) Write a short note on Reverse Engineering. 10
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