

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

Term-End Examination

December, 2024

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) Discuss Project Scheduling. Discuss GANTT and PERT charts with the help of an example for each. 10
- (b) What is the purpose of Software Quality Assurance (SQA) ? Also, explain various processes of SQA. 10
- (c) What is Black Box Testing ? How does it differ from White Box Testing ? 10
- (d) Explain work breakdown structure and flow graph with examples. 10
2. (a) Describe Putnam's model of cost estimation of software development. 10

- (b) What is Prototyping ? Explain the advantages and disadvantages of prototyping. 10
3. (a) What are Version Control and Change Control ? Explain the differences between them. 10
- (b) Define Cleanroom Software Engineering. What is its significance ? Discuss the underlying principles of cleanroom-based software development. 10
4. (a) Explain all the design considerations of interface design. 10
- (b) What is Reverse Engineering ? How does it differ from Re-engineering ? Explain with example. 10
5. (a) Draw Level-0 and Level-1 DFDs for Student Admission System. Make necessary assumptions. 10
- (b) What is SRS ? Write SRS for Student Admission System. Make necessary assumptions. 10

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