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MCS-034

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

Term-End Examination

June, 2022

MCS-034 : SOFTWARE ENGINEERING

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from the rest.*

1. (a) How do CASE tools help in effective Requirements Engineering ? Explain. 10
- (b) Draw and explain the Risk Manager tool. 10
- (c) What is the significance of Software Engineering ? Discuss Spiral Model. Explain the types of projects for whom spiral model is suitable. 10

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- (d) What do you mean by Scheduling of a Software Project ? Explain any *two* types of scheduling techniques used in Software Engineering. 10
2. (a) Explain different phases of Waterfall Model. What are its advantages and disadvantages ? 10
- (b) What is meant by Prototyping ? What are the types of projects where prototype is developed ? What are the pros and cons of a prototype ? 10
3. (a) What is meant by “Version Control” ? Explain it with the help of an evolutionary graph. Give an example of a tool which can be used for performing version control. 10
- (b) What is SRS ? List various items in it. In which phase of SDLC is SRS developed ?

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4. (a) What is Change Management ? Explain the process of making a change request with the help of diagram. 10
- (b) What are various methods for constructing the cost of a project ? Explain any *one* of the methods with an example. 10
5. (a) Explain various levels of SEI-LMM. 10
- (b) Define the term “Software Quality”. List various factors that will affect software quality. 10