Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 90215

M.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Elective

MC 4001 — SOFTWARE PROJECT MANAGEMENT

(Regulations 2021)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Project Planning in Software Engineering.
2. Define Software Quality.
3. Explain Software Costing.
4. What is Risk Analysis in Software Engineering?
5. What is called Effort Estimation in Software Engineering?
6. Define Activity Planning in Software Management.
7. Explain Risk Identification in Software Management.
8. What is resource scheduling in software project management?
9. How does globalization affect software development?
10. State the issues in managing projects in internet.

PART B — (5 × 13 = 65 marks)

11. (a) Describe the key steps to identify the Scope and Objectives of a Project?

Or

(b) Illustrate the resources identification and allocation of resources in a software project?

12. (a) Describe the process involved in the Cost-Benefits analysis in a software project management?

Or

(b) Explain the various cost-benefit evaluation techniques used in software project management.

13. (a) Describe the Software Effort Estimation and explain the how do you estimate software effort?

Or

(b) Discuss about CPM technique with example.

14. (a) Describe in detail Risk Identification and Risk Analysis in Software Project Management?

Or

(b) Describe the steps to analysis of Monitoring and Control of risk in a software project management?

15. (a) Illustrate the challenges of global software project development teams?

Or

(b) Explain PRINCE 2 in Software Project Management and also the Seven Process of PRINCE 2?

PART C — (1 × 15 = 15 marks)

16. (a) Illustrate the importance of THREE dimensions and factors of software quality and its types in Software Project Management?

Or

(b) A small project consisting of eight activities has the following characteristics:

Time — Estimates (in weeks)

Activity	Preceding activity	Most optimistic time (a)	Most likely time (m)	Most Pessimestic time (b)
A	None	2	4	12
B	None	10	12	26
C	A	8	9	10
D	A	10	15	20
E	A	7	7.5	11
F	B,C	9	9	9
G	D	3	3.5	7
H	E,F,G	5	5	5

(i) Draw the PERT network for the above project.

(ii) Calculate the activity duration and scheduling times.

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