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End Semester Examination 2024

Name of the Course: MCA

Semester: II

Name of the Paper.: Software
Project Management

Paper Code: TMC204(3)

Time: 3 Hours

Maximum Marks: 100

Note:

- (i) All Questions are compulsory.
- (ii) Answer any two sub questions among a,b and c in each main question.
- (iii) Total marks in each main question are twenty.
- (iv) Each question carries 10 marks.

Q1	(10*2=20 marks)	
(a)	What do you mean by software project management? What is its importance in software development?	CO1
(b)	Explain importance of project evaluation. Discuss any one method for the evaluation of a software project.	
(c)	Describe various types of Prototype modelling. In which situation waterfall model is best?	
Q2	(10*2=20 marks)	
(a)	Explain V process model, its advantages and disadvantages. Compare it with waterfall model.	CO2
(b)	What do you mean by software risks? Explain different types of risks associated with software development.	
(c)	With a detailed diagram, explain software review process.	
Q3	(10*2=20 marks)	
(a)	Differentiate between a software project and other types of project. Clarify it, with a real world example.	CO3
(b)	Differentiate between Traditional and Modern Management Practices. What is the difference between error, fault, and failure?	
(c)	Focus on the situation on which a software project is terminated. Explain project termination process.	
Q4	(10*2=20 marks)	
(a)	Explain the role of Gantt chart and timeline chart in analyzing the progress of a software project with suitable example.	CO4
(b)	Explain change control process. Why it is important in software project monitoring?	
(c)	Explain the importance of software quality control. How it avoid software failure?	
Q5	(10*2=20 marks)	
(a)	What are the characteristics of software quality? Discuss any one standard of software quality assurance.	CO5
(b)	Explain following: (i) Resource allocation (ii) Slip Chart (iii) Black box testing	
(c)	It is calculated that extending the existing system will have an NPV of Rs. 75,000, although if the market expands significantly, this will be turned into a loss with an NPV of Rs. 1,00,000. If the market does expand, replacing the system now has an NPV of Rs. 250,000. If sales do not increase, then a loss with an NPV of – Rs. 50,000. The company estimate the likelihood of the market increasing significantly at 20% and, hence, the probability that it will not increase as 80%. Use decision tree to represent this scenario.	