CBCS SCHEME

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22MCA414

Fourth Semester MCA Degree Examination, June/July 2024
Software Project Management

Time: 3 hrs. Max. Marks: 100

Note: 1. *Answer any FIVE full questions, choosing ONE full question from each module.*
2. *M : Marks , L: Bloom's level , C: Course outcomes.*

		Module – 1	M	L	C
Q.1	a.	What is Project? What are the characteristics of a project?	6	L2	CO1
	b.	How do you categorize the software products?	4	L2	CO1
	c.	Explain the different activities covered by software project management.	10	L2	CO1
		OR			
Q.2	a.	What are the differences between Traditional versus Modern Management practices? Mention few traditional and few modern project management tools.	6	L2	CO1
	b.	Explain plan and methodologies of software project management with a proper example.	4	L2	CO1
	c.	Explain project control life cycle with a neat diagram.	10	L2	CO1
		Module – 2			
Q.3	a.	How do you evaluate individual project? Explain the same.	6	L2	CO1
	b.	Use 10% discount rate and calculate the NPV for the given project.	4	L2	CO1
	c.	Explain different accounting concepts with an example.	10	L2	CO1
		OR			
Q.4	a.	How net profit payback period, return on investment, net present value, internal rate of return are used to evaluate cost benefit of a project.	15	L2	CO1
	b.	How allocation of resources within a program are managed in software project management.	5	L2	CO1
		Module – 3			
Q.5	a.	Explain how activity planning is carried out with a neat diagram.	7	L3	CO2

Year	Project – Cash flow
0	-100000
1	10000
2	10000
3	10000
4	20000
5	100000

	b.	Explain forward pass with an example.	3	L3	CO2
	c.	Explain activity on arrow networks rules and conventions.	10	L3	CO2
		OR			
Q.6	a.	Draw CPM network and activity table after forward pass and backward pass. Explain the same.	15	L3	CO2

Activity	Duration (weeks)	Precedents
i) Hardware selection	6	
ii) System hardware	4	
iii) Install hardware	3	A
iv) Data Migration	4	B
v) Draft office procedures	3	B
vi) Recruit staff	10	
vii) User training	3	E, F
viii) Install and test system	2	C, D

	b.	What are the different methods to identify the risk? Explain the same.	5	L3	CO2
		Module – 4			
Q.7	a.	Explain Red/Amber/Green method for reviewing activities of any project.	7	L2	CO3
	b.	Explain cost monitoring chart.	3	L2	CO3
	c.	Construct Gantt chart, slip chart and time line chart for any project and explain how there chart are helps in visualizing the progress of a report.	10	L2	CO3
		OR			
Q.8	a.	What is earned value analysis and explain the concept with earned value tracking chart.	10	L2	CO3
	b.	Explain simple change control procedures for operational systems.	10	L2	CO3
		Module – 5			
Q.9	a.	How do you select a right person for a job? Explain the same.	6	L2	CO4
	b.	What models helps to motive the people to work and how?	4	L2	CO4
	c.	Explain the Oldham – Hackman Job characteristics models and organization behaviour.	10	L2	CO4
		OR			
Q.10	a.	How and why health and safety issues are more prominent in construction and in ICT development.	6	L2	CO4
	b.	How recruitment process takes place in a company?	4	L2	CO4
	c.	What are the different powers and styles of a leader in a company?	10	L2	CO4

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