GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER – 5 • EXAMINATION – SUMMER 2018

Subject Code: 2650020   **Date: 07-May-2018**

Subject Name: Software Project Management (SPM)

Time: 10.30 am to 1.00 pm   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Describe major phases of project management life cycle.	**07**
	(b)	What are the characteristic that make software project different from other project	**07**
Q.2	**(a)**	Describe how cost benefit evaluation techniques can be used to choose the best among competing project proposal	**07**
	(b)	What do you understand by Incremental Delivery approach, also Explain advantages and disadvantages of using this approach..	**07**
		OR	
	(b)	Discuss the role of cost estimation in software development project. Briefly explain COCOMO model for cost estimation for all categories of project.	**07**
Q.3	**(a)**	Explain with an example how critical path can be identified in the precedence network?	**07**
	(b)	Explain two tools/techniques for Risk Analysis	**07**
		OR	
Q.3	**(a)**	Describe the smoothing technique of Scheduling Resources, Explain using a histogram.	**07**
	(b)	What are the various techniques used for visualizing progress in software management, explain any two techniques with a neat diagram.	**07**
Q.4	**(a)**	List out the various stages in contract placement and explain each in brief.	**07**
	(b)	Explain Maslow's hierarchy of need and motivation with a neat labelled diagram	**07**
		OR	
Q.4	**(a)**	Explain 5 basic stages of team formation and explain how to improve group performance?	**07**
	(b)	Explain different types of team structures giving advantages and disadvantages of each	**07**
Q.5	**(a)**	Explain the qualities of a good leader and discuss various leadership styles.	**07**
	(b)	Discuss Capability Maturity Model (CMM) in detail.	**07**
		OR	
Q.5	**(a)**	Differentiate between Verification and Validation	**07**
	(b)	Explain Stress and its significance in IT projects.	**07**

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