

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**

