

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER- V • EXAMINATION – WINTER - 2016**

**Subject Code: 2650020**

**Date: 24/11/ 2016**

**Subject Name: Software Project Management**

**Time: 10.30 am to 01.00 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)**
1. What is SRS ? What is the use of SRS ? 2
  2. What are the Three Classes of Portfolio models ? 3
  3. State the characteristics of the “V shape SDLC model”. 2
- Q. 1 (b)** What are the guiding principles for selecting a project team? Explain. 7
- Q. 2 (a)** Explain the top down and bottom up work break down structure with the help of a suitable diagram. 7
- (b)** Discuss the contents of a Software Project Management Plan. 7

**OR**

- (b)** Detail the advantages and disadvantages of the Matrix Organization. 7
- Q. 3 (a)** State and Explain the various criteria to be used in selecting Software Configuration management tools. 7
- (b)** Sort note : Software Quality Assurance plan 7

**OR**

- Q. 3 (a)** Briefly outline the challenges involved in managing domain processes. 7
- (b)** Illustrate the PERT method of identifying the critical path of a project. 7
- Q. 4 (a)** Discuss the Structure, advantage and limitation of SLIM. 7
- (b)** Bring out the significance of resource leveling in Software project. 7

**OR**

**Q. 4 (a)** With neat sketch, Explain the steps of software effort and cost estimation. **7**

**(b)** Write about critical chain scheduling. **7**

**Q. 5 (a)** Explain the steps in product development life cycle. **7**

**(b)** Briefly explain the three levels of COCOMO model. **7**

OR

**Q. 5 (a)** Explain basic steps of Function Point Analysis. **7**

**(b)** Describe the Five levels of SEI-CMM. **7**