

FACULTY OF INFORMATICS

B.E. 4/4 (IT) II – Semester (Make-up) Examination, August 2012

Subject: **Software Project Management (Elective – V)**

Time: 3 Hours

Max. Marks: 75

Note: Answer all questions from Part – A. Answer any five questions from Part – B.**PART – A (25 Marks)**

1. List the contents of a feasibility study for project management. 3
2. Identify the main stake holders in a software project. 2
3. Under what circumstances is an evolutionary approach preferred in software project execution? 2
4. Differentiate between reliability and maintainability of a software application. 3
5. Define earned value analysis. 2
6. What are the stages that software development team go through during their formulation? 3
7. What are the various types of contracts? 2
8. How does a role based structure lead to project completion in PRINCE-2? 3
9. What is a virtual team? 2
10. How should stress be managed during project execution? 3

PART – B (5x10 = 50 Marks)

- 11.(a) What are activities to be carried out in the analysis phase of a software project? 5
(b) Discuss the criteria for selecting the most appropriate process model to be used for software projects. 5
12. How is risk assessment carried out? Elucidate a frame for risk management as part of an over all software project plan. 6
13. What is the importance of software quality? As per ISO 9126, list the major external software quality characteristics. 10
- 14.(a) How is change control implemented in software project management? 5
(b) Discuss the various organizational structures employed during software project execution. 5
- 15.(a) Explain the various techniques used for software effort estimation. 6
(b) What is 'contract management'? 4
- 16.(a) As per BS 6079, discuss the steps in planning for a software project. 5
(b) How is project control carried out in BS 6079 framework for software project management? 5
17. Write short notes on any two of the following:
(a) Extreme Programming
(b) CMMI
(c) Techniques for enhancing software quality.