

Dept - R



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, November 2013
(2008 Scheme)**

08.801 : SOFTWARE ENGINEERING AND PROJECT MANAGEMENT (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. What are the characteristics of software process ? Discuss in detail.
2. What are the activities during software verification ?
3. What is a test plan ?
4. Why is software validation important ?
5. Distinguish between DFD and ER diagram.
6. What are non functional requirements for a software ?
7. Discuss the impact of cohesion and coupling in design phase.
8. Justify the phrase "software is engineered".
9. Distinguish between alpha testing and beta testing.
10. Define software reengineering. **(10×4=40 Marks)**



PART – B

Answer **any one** question from **each** Module. **Each** question carries **20** marks.

Module – I

11. a) Explain waterfall model for software development. **10**
- b) Explain how both waterfall model of software process and prototyping model can be automated in the spiral model. **5**
- c) List out the core principles of software engineering. **5**

OR



12. a) Explain spiral model for software development. What types of software projects are suitable for this model ? 15
- b) What are the ways and means for collecting software requirements ? 5

Module – II

13. a) What is black box testing ? Is it necessary to perform this ? Explain various test activities. 15
- b) What are the difficulties involved in software maintenance ? 5

OR

14. a) Describe the design process in software development. 10
- b) What are the characteristics and criteria for design ? 10

Module – III

15. a) List out and explain dominant issues in configuration management for web applications. 10
- b) Explain what is meant by project scheduling. What are the different techniques used for scheduling ? 10

OR

16. a) Explain the various factors which contribute to effective software project management. 15
- b) What are the risks associated with managing software projects ? 5

(3×20=60 Marks)