



Reg. No. :

Name :

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

08.801 : SOFTWARE ENGINEERING AND PROJECT MANAGEMENT (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. Define software. What are the different characteristics of a software ?
2. What are the different layers of software Engg. ?
3. Write down the different frame work activities for a software process.
4. What are the advantages of first constructing a working prototype before developing actual product ?
5. Give differences between White Box Testing and Black Box Testing.
6. What is a risk ? How risk can be accessed and controlled ?
7. What is a flow graph notation ? Illustrate with necessary diagrams.
8. List the benefits of CASE tools.
9. Derive the empirical relationship between people and effort.
10. Explain version control in the context of software configuration management.

(10×4=40 Marks)

PART – B

Answer **any one** question from **each** Module.

Module – I

11. a) What are the different phases in waterfall model of software development ?
Explain the limitation of such a model. 10
- b) Explain various analysis principles in detail. 10

OR





12. a) i) Define Quality Function Deployment (QFD). Write down the different requirements identified in QFD. 10
- ii) What are the principles that guide analysis work ? 10
- b) Discuss in detail FAST method of requirements gathering with an illustration. 10

Module – II

13. a) Explain in detail COCOMO-1. 10
- b) Discuss control structure testing with examples. 10
- OR
14. a) i) What are the different steps performed in Top down and bottom up integration testing ? 10
- ii) Write down the activities performed on smoke test. 10
- b) Explain the following :
- i) Alpha testing
 - ii) Beta testing
 - iii) Graph matrix
 - iv) Verification and validation. 10

Module – III

15. a) How changes are controlled in software engineering projects ? 12
- b) Explain the basic principles of software project scheduling. 8
- OR
16. a) Explain in detail the three golden rules of Interface design. 10
- b) Draw the schematic diagram of the architecture of a CASE environment and explain how the different tools are integrated. 10