

Exam.Code:0916  
Sub. Code: 6784

1059  
B.E. (Computer Science and Engineering)  
Fourth Semester  
CS-404: Software Engineering

Max. Marks: 50

Allowed: 3 Hours

Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I Answer the following:-

- a) What are the challenges in software?
- b) Define Software process.
- c) What is the role of project manager?
- d) Write out the reasons for the Failure of Water Fall Model?
- e) Explain software Requirement Specification
- f) What are the objectives of Analysis modeling?
- g) What is Software Quality? Assurance?
- h) What does Validation represent?
- i) Distinguish between verification and validation.
- j) What are the different types of Cohesion?

(10x1)

UNIT - I

- II a) Write down the major characteristics of software. Illustrate with a diagram that the software does not wear out.
- b) Explain the spiral model of software development. What are the limitations of such a model? (5,5)
- III a) Explain coupling & cohesion. Explain different types of coupling & cohesion.
- b) Describe the various steps of requirements engineering. Is it essential to follow these steps? (5,5)
- IV. What is the difference between Level-0 and Level-1 DFD? Draw a Level-0 and Level-1 DFD for safe Library management System. (10)

P.T.O.

(2)

UNIT – II

- V. a) What do you understand by system testing? What are the different kinds of system testing that are usually performed on large software products?
- b) What is the difference between test stub and driver? What are the problems associated with Top down approach of testing? (5,5)
- VI. a) Explain the concept of function points. Why FPs are becoming acceptable in industry?
- b) Discuss various types of COCOMO mode. Explain the phase wise distribution of effort. (5,5)
- VII. Write short notes on:-
- a) Metrics for design model.
- b) Sequence diagram (5,5)

x-x-x

Ex  
a)  
b)  
c)  
d)  
a)  
b)  
a)  
b)