

Mid-Term Examination

Software Engineering (Regular)

5th Sem [B.Tech]

Total Marks: 30

Paper Code: ETCS-303

Time Duration: 1.5 hr

Note: Attempt Q. no. 1 which is compulsory and any two questions from the rest.

Q1: All parts are compulsory

(2.5*4)

- (a) Discuss the need and importance of SRS.
- (b) What are live variables? Explain
- (c) What is CMM? How is it different from ISO 9001?
- (d) Compare facilitated application specification technique (FAST) with brain-storming session.

Q2 (a) Compute the function point value for a project with the following information domain characteristics:

(5)

Number of Inputs = 24

Number of user outputs = 65

Number of user enquiries = 12

Number of files = 12

Number of external interfaces = 4

Assume that all weighting factors are average. In addition to that, system has significant data communication and designed code may be moderately reusable. Assume other complexity adjustment factors as moderate.

Q2 (b) What is software life cycle? Discuss the generic waterfall model in detail.

(5)

Q3 (a) What is Risk? What are the risk management activities? Is it possible to prioritize the risk? Discuss.

(5)

Q3 (b) Describe the various steps of requirements engineering. Is it essential to follow these steps?

(5)

Q4 (a) What are the size metrics? How function point metric is advantageous over LOC metric? Explain.

(5)

Q4 (b) Discuss Cost estimation model (COCOMO) in detail.

(5)