

Mid Term Question Paper

CSE (E)
64 ~~1001-02~~

(Please write your Roll No. Immediately) Roll No. _____

Regular
First-Term Examination

5th Semester [B. Tech]
Paper Code-ETCS303
Time: 1.5 hrs

SEPTEMBER 2019
Subject: Software Engg.
Max Marks: 30

Note: Attempt Question 1 which is compulsory and any two more from the remaining.

Que1. 2x5=10

(a) What is software crisis? Was Y2k a software crisis?
(b) What is the purpose of integration and system testing in waterfall model?
(c) What are the uses of Function Point?
(d) Differentiate between "SEL" and "Walston and Felix" Models?
(e) What is SRS and SDD?

(f) Software engineering is a layered approach. Justify your answer (5)

(g) Compute the function point, productivity, documentation, cost per function for the following (5)

(1) Number of user inputs = 24
(2) Number of user outputs = 46
(3) Number of inquiries = 8
(4) Number of files = 4
(5) Number of external interfaces = 2
(6) Effort = 36.9 p-m
(7) Technical documents = 265 pages
(8) User documents = 122 pages
(9) Cost = Rs.7744/ month

Various processing complexity factors are: 4, 1, 0, 3, 3, 5, 4, 4, 3, 3, 2, 2, 4, 5. Assume weighting factors are average.

Que3. (a) What are the Characteristics of a good SRS? (5)
(b) A project size of 200,000 LOC is to be developed. S/W development team has average experience on similar type of projects. The project schedule is not very tight. Calculate the effort, development time, average staff size and productivity of the project? (5)

Que4. (a) What are information flow metrics. Briefly explain Basic Information flow model (5)
(b) Describe the trade-off between time versus cost in Putnam Resource Allocation model? (5)