B F. DE E. 2018

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December-2018

Exam: B. Tech 3rd Semester

Subject: Software Engineering

Max Time 3:00 Hrs

Note: Attempt any five Questions.

Roll No.....

Paper Code: ITPC 27

Max Marks: 50

- Q. No. 1. (a) List out any five software life cycle model. Give detailed characteristics for selection of life cycle model.
 - (b) Describe process steps for Requirement Engineering.

(4+4+2)

- (c) Why Software Engineering is said to be layer Technology?
- Q. No. 2. (a) How you will describe properties of an entity in ER diagram? Explain the various types of that property with the help of example.
 - (b) List out characteristics of good software requirement specification. (4+4+2)
 - (c) Why Function point metric is better than Line of Code?
- Q. No. 3. (a) Distinguish between following:
 - (i) Deliverables and Milestones
 - (ii) Generic product and customized product

(4+4+2)

- (b) What do understand by Data dictionary? Describe various notations that are used in it.
- (c) List out two limitations of DFDs.
- Q. No. 4. (a) Consider a project with following functional units:

No. of I/P = 50

No. of O/P = 40

No. of user inquiries =35

No. of Files =6

No. of External Interfaces =4

Assume that IVE is 1 (7) compute the Ruschon Point of project

- (b) How you can compute estimated program level and Difficulty? Which metric can be used for determining amount of data. (4+4+2)
- (c) How cost drivers are categorized in Intermediate COCOMO Model?
- Q. No. 5. (a) A program is executed to have 500 faults. It is also assume that one fault may lead to one failure only. The initial failure intensity was 2 failures / cpu hr. the program was to be released with failure intensity objective of 5 failure/100 cpu hr. Calculate number of failure experienced before release.
 - (b) Describe the principle on which Reuse Oriented Model of Maintenance is based. Describe the various steps in this model. (5+5)
- Q.No. 6. (a) Why we use CMM? Describe characterization for each maturity level of CMM.
 - (b) Distinguish between Boundary Value Analysis and Robustness Testing. (5+5)