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DD-791

M. Sc. (Fourth Semester) EXAMINATION, 2020

COMPUTER SCIENCE

Paper First

(Software Engineering)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note : Attempt any *two* parts from each Unit. All questions carry equal marks.

Unit—I

- 1. (a) Describe the software development process using 'Waterfall Model'.
 - (b) What is software requirement elicitation? Write some names for techniques available for requirement elicitation and describe any *one* of them briefly.
 - (c) What is the need of software requirement specification? Also discuss the organization of SRS.

Unit—II

2. (a) Explain 'Constructive Cost Model'.

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- (b) Discuss 'Risk Management' activities in brief.
- (c) Compare 'Function oriented software design' and 'Object oriented software design' approaches.

Unit—III

- 3. (a) Discuss the Halstead's software metrics.
 - (b) Describe Logarithmic Poisson software reliability model.
 - (c) Explain reasons of 'Faults and Failure' in software reliability and also discuss result of faulty software.

Unit-IV

- 4. (a) Write short notes on the following:
 - (i) Unit Testing
 - (ii) Integration Testing
 - (iii) System Testing
 - (b) What are the different phases involved in software maintenance activities ?
 - (c) Compare 'Software re-engineering, with 'Software reverse engineering' in brief.

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