

2019

B.Sc. (Hons)

4th Semester Examination

COMPUTER SCIENCE

Paper - C9T

(Software Engineering)

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

Group-A

1. Answer any *five* questions : 5×2=10

(a) What is Feasibility study ?

(b) What do you mean by Function point metric ?

(c) What is software crisis ?

(d) What is iterative waterfall model ?

(e) What is SDLC ?

[Turn Over]

- (f) What is phase containment of error ?
- (g) What is verification & Validation ?
- (h) Write four major responsibilities of a Software Project Manager ?

Group-B

2. Answer any *four* of the following : 4×5=20

- (a) What is Risk ? Explain the different categories of risk that a project may encounter ? 2+3=5
- (b) Briefly explain project size estimation using Delphi and Expert Judgement Techniques ? 2½+2½
- (c) Who are the different category of users of SRS document ? In what ways is the SRS document useful to them ? 2+3
- (d) What do you understand by the terms “Structure analysis” & “Structure design” ? What are the main objectives of “Structure analysis” and “Structure design” ? 2+3
- (e) Discuss about different types of coupling ? 5
- (f) What are the shortcomings of DFD model ? 5

Group-C

3. Answer any *one* questions : 1×10
- (a) Explain the following aspects of RAD SDLC model : 2+2+2+4
- (i) What is time box in a RAD model ?
 - (ii) How does RAD facilitate faster development?
 - (iii) Identify the types of projects for which RAD is suitable and the types for which it is not suitable.
 - (iv) Identify the Key differences between RAD model and Prototyping model ?
- (b) Explain the following aspect of software testing :
- (i) Explain the different approaches for designing test cases ? 6
 - (ii) What are the different kinds of system testing that are usually performed on large software products ? 4
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