B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject : COMPUTER SCIENCE

Paper : C 9 - T

[SOFTWARE ENGINEERING]

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Group - A

Answer any *four* questions : 5×4=20

1. Define 'Software Quality' and 'Software Reliability'. State the difference between the two.

2. What is SRS? Explain the characteristics of SRS.

3. Explain the advantages of Spiral model of software development.

4. What is Data Dictionary? Briefly explain the components of Data Dictionary with the help of an example.

5. What is meant by "Software Project Management"? Explain different tasks involved.

6. What is debugging? Briefly explain any one debugging strategies.

Group - B

Answer any *two* questions : 10×2=20

1. What is Prototyping Model? What are the shortcomings in it? What are the SDLC models which overcome these shortcomings?

2. Explain Software Project Control Cycle with the help of a diagram (flow chart).

3. What is "acceptance testing"? Also, explain alpha and beta testing techniques. Differentiate between Unit and integration testing.

4. What is meant by Gantt Chart? What is meant by Pert Chart? Explain differences between them.

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