U.G. 6th Semester Examination 2022

COMPUTER SCIENCE (Honours)

Paper Code : DC-13

[Software Engineering]

Full Marks : 25　　　　　　　　　　　　　　　　　Time : Two 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 *six* questions from the following: 　　　　　2×6=12

   (a) What is heuristic project estimation technique?

   (b) What is the software development life cycle?

   (c) What are the disadvantages of the waterfall model?

   (d) What is coupling?

   (e) Differentiate between Function oriented design and Object-oriented design.

   (f) Define DFD?

   (g) Mention any two objectives of the feasibility study phase of software development.

   (h) What is software maintenance?

Group - B

Answer any *two* questions. 　　　　　　　　　　　10×2=20

2. (a) Explain different categories of software development projects according to the COCOMO estimation model with examples?

   (b) How effort and development time is calculated in Basic COCOMO?

   (c) Explain the Spiral SDLC model with its advantages and disadvantages?　　　4+2+4=10

3. (a) Differentiate between White-box and Black-box testing.

   (b) Discuss the characteristics of a good SRS document briefly.

(c) Draw the DFD of the Hospital Management System upto level-2.

3+3+4=10

4. (a) What do you mean by software quality? Discuss various quality attributes of software.

(b) Distinguish between software verification and validation.   2+5+3=10

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