

Total No. of Printed Pages—4

6 SEM TDC DSE CAP (CBCS) 2 (NH)

2024

(May)

COMPUTER APPLICATION

(Discipline Specific Elective)

(For Non-Honours)

Paper : DSE-2

(Software Engineering)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : 1×8=8

- (a) Define software failure.**
- (b) What is the use of software testing?**
- (c) When is the prototype model most suitable for use in software development?**

(2)

- (d) Acceptance testing is performed by user.

(State True or False)

- (e) Boundary value analysis is a black-box testing method.

(State True or False)

- (f) SRS is written by
- (i) system developer
 - (ii) system tester
 - (iii) system analyst
 - (iv) user

(Choose the correct answer)

- (g) Which of the following is not a software development life cycle model?

- (i) Waterfall
- (ii) Prototyping
- (iii) Spiral
- (iv) Linear

(Choose the correct answer)

- (h) What is the primary goal of requirement engineering in software development?

- (i) To design the user interface
- (ii) To gather, document and manage requirement
- (iii) To write code
- (iv) To perform software testing

(Choose the correct answer)

(3)

2. Answer any six from the following questions :

3×6=18

- (a) What are the drawbacks of waterfall model?
- (b) What is software development life cycle (SDLC)?
- (c) Differentiate between unit testing and integration testing.
- (d) What is the use of UML in software development?
- (e) Explain in brief about black-box testing.
- (f) What is the need for data dictionary? Explain briefly.
- (g) What is boundary value analysis? Explain briefly.

3. Answer any three from the following questions :

9×3=27

- (a) What are the common challenges faced during software development? Explain.
- (b) Explain the phases involved in the prototyping model.

(4)

- (c) What are the stages of the project management process and how are they applied in software development?
- (d) What is SRS? Explain the characteristics of an SRS document.
