

2021-24

Time : 3 hours

Full Marks : 60

Sem - IV

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

Answer all questions :

1. Multiple choice questions : $1 \times 10 = 10$

(a) Software is defined as _____.

(i) Set of programs, documentation and configuration of data

(ii) Set up Programs

(iii) Documentation

(iv) None of these

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- (b) Why do bugs and failures occur in software ?
- (i) Because of Developers
 - (ii) Because of Companies
 - (iii) Because of both Companies and Developers
 - (iv) None of the mentioned
- (c) SDLC stands for _____
- (i) System Design Life Cycle
 - (ii) Software Design Life Cycle
 - (iii) Software Development Life Cycle
 - (iv) System Development Life Cycle
- (d) Who proposed the spiral model ?
- (i) Barry Boehm
 - (ii) Pressman
 - (iii) Royce
 - (iv) IBM
- (e) Risks are those that can be uncovered after careful evaluation of the project plan.
- (i) True
 - (ii) False
- (f) What is System Software ?
- (i) Computer Program

- (ii) Testing
 - (iii) AI
 - (iv) IOT
- (g) Quality Management is known as _____
- (i) SQI
 - (ii) SQA
 - (iii) SQM
 - (iv) SQA and SQM
- (h) White Box techniques are also classified as :
- (i) Design based testing
 - (ii) Structural testing
 - (iii) Error guessing technique
 - (iv) None of the mentioned
- (i) By whom is unit testing done ?
- (i) Users
 - (ii) Customers
 - (iii) Developers
 - (iv) None of these
- (j) Project risks threaten the _____
- (i) Project plan

- (ii) Project development
- (iii) Project monitoring
- (iv) None of the mentioned above

2. Define CMM (Capability Maturity Model). 5

Group – B

Answer any three questions : 15×3 = 45

- 3. Explain Spiral model in detail. Compare it with waterfall model.
- 4. Explain COCOMO Model.
- 5. What is testing ? Explain different types of Integration testing.
- 6. What is SRS ? What are its component ? Give an example of functional and non-functional SRS.
- 7. Write short notes on the following :
 - (a) Risk Identification
 - (b) Risk Projection

