

**2021**

*Time : 3 hours*

*Full Marks : 70*

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

*The figures in the margin indicate full marks.*

*Answer **all** sections as directed.*

**Section–A**

**(Compulsory)**

1. Pick up the correct alternative for each of  
the following questions :  $10 \times 2 = 20$

(a) Which of the following is not a valid  
phase of SDLC (Software Development  
Life Cycle) ?

(i) Testing Phase

(ii) Requirement Phase

(iii) Deployment Phase

(iv) Testing closure

(b) Which of the following testing is also known as white-box testing ?

(i) Structural testing

(ii) Error guessing technique

(iii) Design based testing

(iv) None of the above

(c) Which of the below is not a part of the Test Plan ?

(i) Schedule

(ii) Risk

(iii) Incident reports

(iv) Entry and exit criteria

(d) Which of the following testing is related to the boundary value analysis ?

- (i) White box and black box testing
- (ii) White-box testing
- (iii) Black box testing
- (iv) None of the above

(e) What is cyclomatic complexity ?

- (i) Black Box testing
- (ii) White Box testing
- (iii) Grey Box testing
- (iv) All of these

(f) \_\_\_\_ is not a test document ?

- (i) Test policy
- (ii) Test case
- (iii) PIN (Project Initiation Note)
- (iv) RTM (Requirements Traceability Matrix)

- (g) In which environment we can perform the Beta testing ?
- (i) User's and developer's end
  - (ii) Developer's end
  - (iii) User's end
  - (iv) None of the above
- (h) Which of the below testing is related to Non-functional testing ?
- (i) Unit testing
  - (ii) Black box testing
  - (iii) Performance testing
  - (iv) None of above
- (i) \_\_\_\_\_ is not used evaluating the size of the software ?
- (i) Function points
  - (ii) KLOC
  - (iii) Size of module
  - (iv) None of these

1) Lower and Upper limits are present in which chart ?

- (i) Run Chart
- (ii) Bar Chart
- (iii) Control Chart
- (iv) None of the above

### Section-B

Answer any **four** questions :

4×5=20

2. Explain basic testing.
3. Explain validation testing.
4. Explain Cyclomatic Complexity.
5. Differentiate between debugging and testing.
6. Discuss the decision table-based testing.
7. What are the different methods of testing ?
8. Explain white box testing.
9. Explain the limitation of software testing.



### Section-C

Answer any two questions of the following :

2×15=30

10. Explain types of testing strategies.
11. Explain the role of testing in software development.
12. Difference between black box testing and white box testing.
- ✓ 13. Explain V shaped software life cycle model.

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