



BCH-003-004503

Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

August - 2021

CS-27 : Information Technology

(Software Testing and Project Management)

Faculty Code : 003

Subject Code : 004503

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Attempt any five questions.

- 1 (A) Objective Type Questions :
- (1) Matured Software Engineering with Quality Control implies _____. 1
 - (2) Rounded Rectangle is used to denote _____ in Data Flow Diagram. 1
 - (3) Which two tools can be used to document procedure ? 1
 - (4) What is another name of Bubble chart ? 1
- (B) Answer in brief : (any **one**) 2
- (1) Write attributes of Information analyst.
 - (2) Write roles of system analyst.
- (C) Answer in detail : (any **one**) 3
- (1) Write benefits of decision table.
 - (2) Explain Decision tree with example.
- (D) Write a short note : (any **one**) 5
- (1) Explain types of implementation of a software and maintenance according to SDLC.
 - (2) Explain 3rd and 4th phase of SDLC.

- 2 (A) Objective Type Questions :
- (1) Performance testing are _____ testing. 1
 - (2) Collection of all test cases with instruction for automated testing is called _____ 1
 - (3) Testing with execution is called _____ Testing. 1
 - (4) Acceptance testing is a type of _____ Testing. 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain Testing Artifacts.
 - (2) Explain Verification and validation.
- (C) Answer in detail : (any **one**) 3
- (1) Explain Inspection and walk through.
 - (2) Explain difference of non functional testing.
- (D) Write a short note : (Any **one**) 5
- (1) Explain white box and black box testing.
 - (2) Explain system testing in detail and functional testing.
- 3 (A) Objective Type Questions :
- (1) Full form of QTP is _____ 1
 - (2) Test script is necessary to record for _____ testing tool. 1
 - (3) Customer communication is the first phase in the _____ model. 1
 - (4) Small working model of software is called _____. 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain prototype model.
 - (2) Explain waterfall model.
- (C) Answer in detail : (any **one**) 3
- (1) Explain freeware, shareware and licensee tools.
 - (2) What is the role of test script in automated testing ?
- (D) Write a short note : (any **one**) 5
- (1) Explain spiral model.
 - (2) Explain big bang model.

- 4 (A) Objective type questions
- (1) Another name of Gantt chart is _____. 1
 - (2) Error per FP is a metric which includes _____ along with size. 1
 - (3) FP stands for _____. 1
 - (4) PERT stands for _____. 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain project Management activities.
 - (2) Explain Timeline Chart.
- (C) Answer in detail : (any **one**) 3
- (1) Explain LOC based metrics.
 - (2) Explain function oriented metrics.
- (D) Write a short note : (any **one**) 5
- (1) Explain Task network diagram.
 - (2) Explain factors on which project cost depends.
- 5 (A) Objective Type Questions
- (1) Microsoft's Computer Aided Designing tool is _____. 1
 - (2) Microsoft's Computer Aided Management tools is _____. 1
 - (3) UML stands for _____. 1
 - (4) Merge corresponds to _____ in Activity diagram. 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain symbols of use case diagram.
 - (2) Explain aggregation in class diagram.
- (C) Answer in detail : (any **one**) 3
- (1) Explain Use Case Diagram with example.
 - (2) Explain Inheritance in Class Diagram with example.
- (D) Write a short note : (Any **one**) 5
- (1) Explain Activity Diagram with example.
 - (2) Explain symbols of Activity Diagram.