



HB-003-004503

Seat No. _____

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

May / June – 2017

CS-27 : Software Testing & Project Management

Faculty Code : 003

Subject Code : 004503

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

[Total Marks : 70

1 Attempt following questions : **20**

- (1) Which quality of software enables it to perform same functions across all environment and platforms?
- (2) CMM stands for _____
- (3) Which one is a preventive process? SQA or SQC?
- (4) Testing is defined in ANSI/IEEE _____ standard.
- (5) Set of test cases is called _____
- (6) When client faces any kind of unexpected behavior of delivered software, is called _____
- (7) In which testing, software is tested without executing the code ?
- (8) Unit testing is level of dynamic testing. State the statement is true or false.
- (9) Which testing technique tests whether the application is user-friendly or not?
- (10) Which software development model is also known as linear/sequential model?
- (11) Which model gives risk analysis as one of the phases of software development?

- (12) V model of software development stands for _____.
- (13) Which tool is Load testing tool?
- (14) QTP stands for _____
- (15) CPM stands for _____
- (16) Development progress of a project can be tracked by Timeline chart. State the statement True or False.
- (17) In which type of chart, we can find milestones?
- (18) COCOMO stands for _____
- (19) Visio is product of _____
- (20) In which type of diagram, actor is used?

2 (a) Attempt the following : (any **three**) **6**

- (1) What is fault and what is failure?
- (2) What is test harness?
- (3) Explain informal review.
- (4) Explain hybrid integration.
- (5) Explain stress testing.
- (6) Explain analysis and design phase of waterfall model.

(b) Attempt the following : (any **three**) **9**

- (1) Explain qualities of software.
- (2) What is software testing? Explain in brief.
- (3) Explain error with types.
- (4) Explain : What is test script?
- (5) Explain function oriented metrics.
- (6) Explain top down integration.

- (c) Attempt the following : (any **two**) **10**
- (1) Differentiate SQA and SQC.
 - (2) What is test case? Explain any 3 parameters of test case.
 - (3) Explain inspection technique for review.
 - (4) Explain white box testing in detail.
 - (5) Explain iterative model.
- 3** (a) Attempt the following : (any **three**) **6**
- (1) Explain Spiral model.
 - (2) Define freeware and shareware.
 - (3) Explain fuzzy logic sizing in brief.
 - (4) What do you mean by decomposition techniques?
 - (5) Give steps to define predecessor of a task in MS Project.
 - (6) Discuss goals of UML.
- (b) Attempt the following : (any **three**) **9**
- (1) Explain benefits of automated testing.
 - (2) Discuss Change sizing.
 - (3) Explain meaning of Direct measures and Indirect measures.
 - (4) Explain Walkthrough technique for review.
 - (5) Draw a task network diagram which has total 4 activities where all are dependent on its previous activity. Activity 3 is divided into 3 sub activities.
 - (6) Define optimistic time, most likely time and pessimistic time.

(c) Attempt the following : (any **two**)

10

- (1) Explain Load runner.
 - (2) Discuss rational suite.
 - (3) Explain COCOMO model.
 - (4) Explain Size oriented metrics.
 - (5) Explain Use Case diagram.
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