



MAL-003-004503

Seat No. _____

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

October / November – 2016

CS-27 : Software Testing & Project Management
(Software Quality Assurance & Project Management)
(New Course)

Faculty Code : 003

Subject Code : 004503

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

[Total Marks : 70

- 1 Attempt the following : 20
- (1) What is QC?
 - (2) What is QA?
 - (3) Give definition of Test Script.
 - (4) What is Bug?
 - (5) What is Fault?
 - (6) Give definition of Verification.
 - (7) Give definition of Validation.
 - (8) What is Walkthrough?
 - (9) What is Authentication?
 - (10) What is Test Harness?
 - (11) What is Test Plan?
 - (12) What is Project Estimation?
 - (13) List out various reasons for Software failure.
 - (14) What is Informal Test Case?
 - (15) What is Inspection?
 - (16) What is Code Review?
 - (17) What is Formal Test Case?
 - (18) What is Test Suite?
 - (19) What is Error?
 - (20) What is Authorization?

- 2** (a) Attempt any **three** : **6**
- (1) What is Dynamic Testing ? Explain in brief.
 - (2) Explain Integration Testing and Unit Testing.
 - (3) Explain Big Bang Model.
 - (4) Briefly explain System Testing.
 - (5) What is Acceptance Testing ? Explain in brief.
 - (6) Explain Algorithmic Method.
- (b) Attempt any **three** : **9**
- (1) Give difference between QA and QC.
 - (2) Explain Project Cost Estimation.
 - (3) List and explain Decomposition Techniques.
 - (4) Explain FP based and LOC based Estimation.
 - (5) Explain Prototyping Model.
 - (6) Explain COCOMO Model.
- (c) Attempt any **two** : **10**
- (1) Explain Black Box, White Box and Grey Box Testing.
 - (2) What is Non-Functional Testing ? Explain in detail.
 - (3) Explain Waterfall Model.
 - (4) Explain Freeware, Shareware and License Tool.
 - (5) Explain Winrunner and Load Runner.
- 3** (a) Attempt any **three** : **6**
- (1) Explain Spiral Model.
 - (2) List out and explain any four activities of QA.
 - (3) Explain Automated Testing and Manual Testing.
 - (4) Explain Iterative Model.
 - (5) Explain Activity Diagram in brief.
 - (6) Explain Effort Estimation Techniques.

- (b) Attempt any **three** : **9**
- (1) Explain Problem Based and Process Based Estimation.
 - (2) Explain Project Scheduling and Tracking.
 - (3) Explain Time Line chart.
 - (4) Explain MS-VISIO with its features.
 - (5) What is UML? Explain in brief.
 - (6) Explain MS-Project for Controlling and Project Management.
- (c) Attempt any **two** : **10**
- (1) Explain 4 P's Concept for the Project Management.
 - (2) Explain Use Case Diagram and Class Diagram of UML.
 - (3) Explain PERT Chart.
 - (4) Explain QTP in detail.
 - (5) Explain V-Model.
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