



BAJ-003-003308

Seat No. _____

B. C. A. (CBCS) (Sem. III) Examination

October / November – 2015

CS-13 : SAD, Software Quality Assurance & Testing

(New Course)

Faculty Code : 003

Subject Code : 003308

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

(Total Marks : 70

Instruction : Write answer of MCQ in answer sheet.

1 Attempt the following MCQs : 20

(1) Which of the following is not a fact-finding technique?

(A) Third party enquiry (B) Interview

(C) Questionnaire (D) Observation

(2) Class Diagram represents

(A) Class Definition (B) Association

(C) Inheritance (D) All of these

(3) Team planner tool used to _____

(A) Assign activities to people

(B) Observe Activities in timeline

(C) Add resources

(D) ALL of these

- (4) How many steps are in the systems development life cycle (SDLC)?
- (A) 4 (B) 5
(C) 6 (D) 10
- (5) Which of the following is not a component of an information system?
- (A) Equipment (B) End-user
(C) Organisational goals (D) Procedures
- (6) ISO focus on
- (A) Process (B) Product
(C) People (D) None of these
- (7) What is an extension of Visio Drawing file?
- (A) .vsd (B) .vst
(C) .vsr (D) .vsf
- (8) In MS Project, the critical path is _____
- (A) Exhibited in red
(B) Not calculated or found
(C) Exhibited on the PERT chart only
(D) Replaced with the circular chain
- (9) Decision Tree are useful when _____
- (A) Problem is complex
(B) Problem is fairly simple
(C) Both of above
(D) None of these

- (10) Prototypes are used for _____
- (A) Look and feel of code
 - (B) Look and feel of Screen shots
 - (C) Look and feel of output
 - (D) All of the above
- (11) The first step in SDLC is _____
- (A) Design
 - (B) Analysis
 - (C) Code
 - (D) Test
- (12) Software Design Focuses on _____
- (A) Procedural Algorithm
 - (B) Data Structure
 - (C) Interface Representation
 - (D) All of above
- (13) The ratio of failure is greater in _____
- (A) Waterfall Model
 - (B) Big Bang Model
 - (C) V-Model
 - (D) Incremental Model
- (14) When object oriented Technology is used which model is best ?
- (A) Concurrent Development Model
 - (B) Component Based Development Model
 - (C) Spiral Model
 - (D) None of these

- (15) The testing technique does not check internal logic is _____
- (A) Black Box testing (B) White Box testing
(C) Grey Box Testing (D) None of these
- (16) Test Plan includes _____
- (A) Scope (B) Objective
(C) Risk (D) All of these
- (17) Object Oriented is part of _____
- (A) SDLC (B) Software Engineering
(C) DFD (D) None of these
- (18) Empirical Techniques are _____
- (A) Expert Judgement technique
(B) Delphi cost estimation
(C) Both of this
(D) None of these
- (19) Three levels of COCOMO model are _____
- (A) Primary, Secondary, Expert
(B) First, Second, Third
(C) Basic, Intermediate, Detailed
(D) None of above
- (20) Which of the following is a automated testing ?
- (A) WATIR (B) Unit
(C) System (D) Software

2 (a) Attempt any **three** :

6

- (1) Explain :
 - (i) System
 - (ii) Subsystem
- (2) Write different phases of software development life cycle.
- (3) Write name of tools for Documenting Procedures and Decisions.
- (4) Explain Test case.
- (5) What is Class Diagram ?
- (6) What is Bug, Error and Fault ?

(b) Attempt any **three** :

9

- (1) Write role of System Analyst.
- (2) What is freeware and shareware ?
- (3) Explain White box Testing.
- (4) Explain Risk Management.
- (5) Explain Test Harness.
- (6) What is Decision Table testing ?

(c) Attempt any **two** :

10

- (1) Differentiate : Functional Testing v/s Non-Functional Testing

- (2) Write short note on Economic Feasibility.
- (3) What is UML ? Explain Use Case Diagram.
- (4) Explain Fact finding Techniques in detail.
- (5) Explain Quality control with example.

3 (a) Attempt any three : 6

- (1) Explain Manual Testing.
- (2) Explain PERT Chart.
- (3) Explain tools for Analysts.
- (4) Write names of tools available for Developers.
- (5) Explain Data Dictionary.
- (6) What is COCOMO model ? Give its importance.

(b) Attempt any three : 9

- (1) Differentiate :
Quality Control v/s Quality Assurance
- (2) What is Decision Table ? Explain with example.
- (3) Explain Load- Runner.
- (4) Explain tools use for software development.
- (5) Write note on time-line chart.
- (6) Explain different types of licensed tools.

(c) Attempt any two :

10

- (1) Explain Spiral Model.
 - (2) What is Project Estimation Technique ?
Explain it.
 - (3) Explain Project Management tools.
 - (4) Explain the concept of WinRunner with its case study.
 - (5) Explain different Graphical Representing Tools.
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