



HCU-003-1033001 Seat No. _____

B. C. A. (Sem. III) (CBCS) (W. I. F. - 2016) Examination

October / November – 2017

SAD Software Quality Assurance & Testing

(New Course)

Faculty Code : 003

Subject Code : 1033001

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

[Total Marks : 70

Instruction : Question 1 to 5 are compulsory.

- 1 (a) Answer the following : 4
- (1) When we process data and convert it into a form that is useful and meaningful to the decision maker, it becomes _____ .
 - (2) Information system is having some sub components which is known as _____ .
 - (3) _____ is a process of gathering, filtering useful data out of gathered data.
 - (4) Full form of SDLC.
- (b) Answer in brief : (any 1) 2
- (1) What is system design ?
 - (2) Define Decision Tree.
- (c) Answer in detail : (any 1) 3
- (1) What is DFD ?
 - (2) What is software ?
- (d) Write a note on following : (any 1) 5
- (1) Fact Finding Techniques
 - (2) Note on SDLC.

- 2** (a) Answer the following : **4**
- (1) The main aim of software testing is to find an _____ .
 - (2) _____ is a procedure used to verify that a particular segment of source code is working properly.
 - (3) _____ testing deals with the internal logic and structure of the code.
 - (4) _____ testing is carried out in order to find out how well the system can protect itself from unauthorized access.
- (b) Answer in brief : (any 1) **2**
- (1) Define Error and Defect.
 - (2) Define Verification and Validation.
- (c) Answer in detail : (any 1) **3**
- (1) Explain System Testing.
 - (2) Explain Test Cases.
- (d) Write a note on following : (any 1) **5**
- (1) Explain Black box testing with its advantages and disadvantages.
 - (2) Write a note on Non-functional Testing.
- 3** (a) Answer the following : **4**
- (1) _____ model is used when customer defines set of general objective for software but does not identify detailed input processing or output requirement.
 - (2) _____ model is a realistic approach to the development of large scale systems and software.
 - (3) Which model is ideal for small project with one or two developers working together and is also useful for academic or practice projects.
 - (4) V-model is the extension of waterfall model and is based on association of testing phase for each corresponding phase. (True / False)

- (b) Answer in brief : (any 1) 2
- (1) Define V-model.
 - (2) List different phases of waterfall model.
- (c) Answer in detail : (any 1) 3
- (1) Advantages and disadvantages of Big Bang model.
 - (2) Explain Load Runner and Win Runner.
- (d) Write note on following : (any 1) 5
- (1) Write note on Iterative model
 - (2) Write note on Spiral model.
- 4 (a) Answer the following : 4
- (1) Full form of PERT.
 - (2) A task network is also called _____ is a graphic representation of the task flow for a project.
 - (3) Time line chart is also called Gantt Chart.
(True / False)
 - (4) _____ in a project refers to a road map of all activities to be done with specific order and within time slot.
- (b) Answer in brief : (any 1) 2
- (1) What is Timeline Chart.
 - (2) What is Project Management.
- (c) Answer in detail : (any 1) 3
- (1) Describe Effort Estimation Techniques.
 - (2) Describe Task Network and Scheduling.
- (d) Write note on following (any 1) 5
- (1) Note on Decomposition Techniques.
 - (2) Note on PERT chart.

- 5 (a) Answer the following : 4
- (1) What is the extension of visio drawing file.
 - (2) _____ diagram show the flow from one activity to another activity.
 - (3) Full form of UML.
 - (4) A _____ is a graphical representation for number of elements, it also indicates interrelationship of elements.
- (b) Answer in brief : (any 1) 2
- (1) Explain the following terms :
 - object
 - class
 - (2) Define Attribute.
- (c) Answer in detail : (any 1) 3
- (1) Explain Use Case diagram.
 - (2) Explain Activity diagram.
- (d) Write note on following : (any 1) 5
- (1) Write note on MS-Visio.
 - (2) Write note on Class Diagram.
-