

Total No. of Questions :7]

SEAT No. :

[Total No. of Pages :4

P1012

[5319] - 3003

S.Y.B.C.A.

SCIENCE

**BCA - 303 : Software Engineering
(2016 Pattern) (Semester - III)**

Time : 3 Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Question 1 is compulsory.*
- 2) Attempt any two questions from Group - I & any two questions from Group - II.*
- 3) All questions carry equal marks.*
- 4) Figures to the right indicate full marks.*


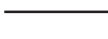


Q1) Attempt the following.

A) Multiple Choice Questions:

[7]

- 1) Which of the following is not the element of the system.
 - a) Control
 - b) Feed back
 - c) Risk
 - d) Envionment.
- 2) Robotics comes under which category
 - a) System software
 - b) Artificial intelligence
 - c) Business software
 - d) Net sourcing
- 3) Checking the individual programs for correctness means _____.
 - a) System Testing
 - b) Unit Testing
 - c) Integration Testing
 - d) Alpha Testing

P.T.O.

- 4) Which of the following is not a fact finding technique?
- a) Specification b) Interview
- c) Questionnaire d) Observation.
- 5) Identify the symbol used for Data Store in DFD.
- a)  b) 
- c)  d) 
- 6) _____ is the primary requirements validation mechanism.
- a) Megotiation b) Formal Technical Review
- c) Elaboration d) Specification
- 7) Which of the following is not a type of software maintanance.
- a) Corrective b) adaptive
- c) Preventive d) Quality

B) Attempt the following.

Group - I

Q2) Attempt the following.

- a) Write a short note on Mc call's Quality factors. [5]
- b) What is prototyping? Explain the steps in prototyping. [5]
- c) List & Explain any 4 tasks involved in Requirement Engineering. [4]

Q3) Attempt the following.

- a) Write a short note on preliminary Investigation of SDLC. [4]
- b) Compare Structured Interview with unstructured Interview. [4]
- c) Explain advantages of spiral model. [3]
- d) Explain characteristics of system. [3]

Q4) Attempt the following.

- a) State all symbols of DFD. [4]
- b) Write a short note on Stress Testing. [4]
- c) What is Data Dictionary? Explain the importance of Data Dictionary. [3]
- d) Explain any three human factors for agile process. [3]

Group - II

Q5) Attempt the following.

- a) Draw context level & 1st level DFD for "Airline Reservation System". [5]
- b) Write a short note on Extreme programming values. [5]
- c) State the difference between verification & validation. [4]

Q6) Attempt the following.

- a) Explain system testing with it's types. [4]
- b) Explain Decision Table with example. [4]
- c) Write a short note on Reverse Engineering. [3]
- d) Explain any (three) principle to achieve agility [3]

Q7) Attempt the following.

- a) Explain any four umbrella activities. [4]
- b) Write a short note on feasibility study. [4]
- c) Explain the essence of Software Engineering Practice. [3]
- d) State & Explain any three framework activities in Software Engineering. [3]

