PARUL UNIVERSITY PARUL INSTITUTE OF COMPUTER APPLICATION BCA DEPARTMENT

Mid Term Examination - April, 2017

Subject Code: **05101253**

Subject Title: Basic Software Engineering

Course: BCA / IMCA Semester: 4th

Date: 12-04-2017 Time: (1.5 hour) Total Marks: 30

Q-1) Solve MCQ (Attempt any 06 from 10)

Q-1.1) DFD shows

A.The flow of data

- B. The processes
- C. The areas where they are stored
- D. All of the above

Q-1.2) Coupling is a measure of

- A. Relative functional strength
- B. Interdependence among module
- C. Both of the above
- D. None of the above

Q-1.3) Prototype is a

- A. Working model of existing system
- B. Mini model of existing system
- $\mathbb{C}.$ Mini model of processed system
- D. None of the above

Q-1.4) Spiral Model was developed by?

- 1. Bev Littlewoods
- 2. Berry Bohem
- 3. Roger Pressman
- 4. Victor Bisili

Q-1.5) SDLC stands for?

- 1. Software design life cycle
- 2. Software development life cycle
- 3. System design life cycle
- 4. System development life cycle

(06)

Q-1.6) SRS stands for?

- 1. Software requirement specification
- 2. Software requirement solution
- 3. System requirement specification
- 4. None of Above

Q-1.7) the model remains operative until the software is retired?

- 1. Waterfall
- 2. Incremental
- 3. Spiral
- 4. None of these

Q-1.8) A zero level DFD describes

- A. That the system design cannot be split further
- B. Fully below up system design
- C. Overview of processes input and output
- D. None of the above

Q-1.9) In risk analysis of spiral model, which of the following risk includes?

- 1. Technical
- 2. Management
- 3. Both A and B
- 4. None of these

Q-1.10) which model is popular for student's small projects?

- 1. Waterfall Model
- 2. Spiral Model
- 3. Iterative Enhancement Model
- 4. Prototyping Model

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1. Deployment diagram

levels of DFD's diagrams with an example.

3. Sequence diagram

*** All the Best***

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(80)Q-2) Answer the following (1 line) (Attempt any 08 from 10) 2.1 What do you mean by system? 2.2 Draw the V- SDLC Model Diagram only? 2.3 List the main activity of system analyst? 2.4 What are the phases of SDLC? 2.5 Name all the fact gathering techniques? 2.6 The SRS document act as between customer and Organization? 2.7 What is cohesion? 2.8 Name all the software design strategies? 2.9Draw the Prototyping SDLC Model Diagram only? 2.10 Define types of coupling only? (80)Q-3) Answer the following questions (Short) (Attempt any 4 from 6) 3.1 Types of system on the basis of characteristics and application. 3.2 Explain the following term with their major's responsibilities: a. System analysis b. System analyst 3.3 Write a short note on SRS? 3.4 Write a Short note on big bang model with diagram? 3.5 Draw waterfall model diagram. 3.6 Write four advantage/Disadvantage of Prototyping model. (80)Q-4) Answer the following questions (Long) (Attempt any 2 from 4) 4.1. Define Spiral SDLC model with diagram, implementation, advantage and disadvantage. 4.2. Explain UML diagrams in context of diagram, diagram purpose, how to design the diagram. 2. Activity Diagram 1. Class diagram 4. Component diagram 3. Use Case diagram

4.3. Explain UML diagrams in context of diagram, diagram purpose, how to design the diagram.

2.State chart Diagram

4. Collaboration diagram

4.4. Define SRS with an example Define DFD and draw the diagram for DFDs terminology? Define all the