

Total No. of Questions : 11      Total No. of Printed Pages : 7

onlineBU.com

**SH-367**

**M.Sc. III<sup>rd</sup> Semester Examination, 2015-16**

**Computer Science**

**Paper - III**

**Software Engineering**

**Time : 3 Hours]**

**[Maximum Marks : 85**

**Note :-** Attempt all questions.

**SECTION - 'A'**

**Objective Type Questions      1½×10=15**

**1. Choose the correct answer :**

- (i) What describe the data and control to be processed :
- (a) Planning process
  - (b) Software Scope      onlineBU.com
  - (c) External Hardware
  - (d) None of the above

**P.T.O.**

(2)

SH-367

- (ii) Which of the following is a tool in design phase :
- (a) Abstraciton
  - (b) Refinement      onlineBU.com
  - (c) Information hiding
  - (d) All of the above
- (iii) Which of the following is a life cycle concern :
- (a) Planning
  - (b) Testing
  - (c) Portability
  - (d) Programming
- (iv) The degree of interaction between two models is known as :
- (a) Cohesion
  - (b) Instantiation
  - (c) Coupling      onlineBU.com
  - (d) None of the above
- (v) The best way to test the software project management plan is called as :
- (a) Prototyping
  - (b) Inspection
  - (c) Simulation
  - (d) Compilation

- (vi) Risk management is one of the most important job for : onlineBU.com
- (a) Project manager
  - (b) Investor
  - (c) Production team
  - (d) Client
- (vii) Black Box testing is also called :
- (a) Specification based testing
  - (b) Structural testing
  - (c) Stress testing
  - (d) Unit testing
- (viii) In maintenance phase the product must be tested against previous test case is known as..... testing. onlineBU.com
- (a) Unit
  - (b) Regression
  - (c) Integration
  - (d) Beta

- (ix) Maintenance is classified into..... categories.
- (a) Two
  - (b) Three onlineBU.com
  - (c) Four
  - (d) Five
- (x) The final form of testing COTS software is :
- (a) Unit
  - (b) Alpha
  - (c) Module
  - (d) Beta

### SECTION - 'B'

#### Short Answer Type Questions 5×5=25

2. Explain Spiral Model in brief with diagram.

OR onlineBU.com

What is software process ? Discuss various element of process.

3. Distinguish between verification and validation.

OR

What do you mean by software requirement specification ?

4. Define software quality Assurance in brief. Write its advantages of disadvantages.

OR

What do you mean by Risk Management ? Give an example of Risk.

5. Why software project planning is necessary for designing a software ? Explain.

OR

What is cohesion ? How it is differ from coupling ? Explain.

6. Explain software configuration management ?

OR

Write short notes on :-

- (a) Functional testing.  
(b) Structural testing. onlineBU.com

### SECTION - 'C'

#### Long Answer Type Questions 9×5=45

7. What is software Engineering ? Explain the function of system Engineering process with a suitable diagram.

P.T.O.

OR

Explain in details :-

- (a) Waterfall Model.  
(b) COCOMO Model.

8. Explain the function of Requirement Engineering Process in details. Explain problem Analysis also ?

OR

Design data flow diagram for student admission system in your college with explanation ?

9. What is cost estimation ? Explain various cost estimation Techniques. Write advantages and disadvantages of each techniques.

OR

What do you mean by project scheduling ? Explain in details. Why project monitoring is important in software engineering. Give your opinion in brief.

10. What is structured design ? Explain different types of methodology of structural design in details ?

OR onlineBU.com

What do you mean by software design ? Explain different types of design principles in details ?

11. What do you mean by Software Testing ? Explain different types of testing in details. onlineBU.com

**OR**

What is SQA ? What are the activities of SQA ? Explain in details.

\*\*\*

onlineBU.com