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Total Number of Pages: 03

**B.TECH**  
**PCS31104**

**3<sup>rd</sup> Semester Regular Examination 2016-17**

**SOFTWARE ENGINEERING**

**BRANCH: CSE**

**Time: 3 Hours**

**Max Marks: 100**

**Q.CODE: Y705**

**Answer Part-A which is compulsory and any four from Part-B.**

**The figures in the right hand margin indicate marks.**

**Part – A (Answer all the questions)**

**Q1) Answer the following questions. Write the correct alternative for these questions. (2 x 10)**

- a) White box testing, a software testing technique is sometimes called? -
- Glass box testing
  - white box testing
  - Black box
  - basic path
- b) ISO 9001 is not concerned with \_\_\_\_\_ of quality records.
- Collection
  - Maintenance
  - Verification
  - dis-positioning
- c) Source code translation is a part of which re-engineering technique?
- Data re-engineering
  - Re-factoring
  - Restructuring
  - None of the mentioned
- d) The testing in which code is checked
- Black box testing
  - White box testing
  - Red box testing
  - Green box testing
- e) The CMM model is a technique
- Automatically maintain the software reliability
  - Improve the software process.
  - Test the software
  - all of the mentioned

- f) Forward engineering is also known as
- i. extract abstractions
  - ii. Renovation
  - iii. Reclamation
  - iv. both renovation and reclamation
- g) What is used to pass SQL requests and associated data from one component to another?
- i. Client/server SQL interaction
  - ii. Remote procedure calls
  - iii. SQL Injection
  - iv. All of the above
- h) Service Oriented Architecture (SOA) is
- i. Strongly Coupled
  - ii. Loosely Coupled
  - iii. Strongly Cohesive
  - iv. Loosely Cohesive
- i) RUP stands for \_\_\_\_\_ created by a division of \_\_\_\_\_.
- i. Rational Unified Program, IBM
  - ii. Rational Unified Process, Infosys
  - iii. Rational Unified Process, Microsoft
  - iv. Rational Unified Process, IBM
- j) How many phases are there in Scrum?
- i. Two
  - ii. Three
  - iii. Four
  - iv. Seven.
  - v.

**Q2**

**Answer the following:**

**2 X10**

- a) What is the Advantage of Prototype Model.?
- b) What is functional and non functional Software requirement?
- c) What is Code and Code Review.?
- d) What are the advantage and disadvantage of Black Box Testing.?
- e) What are different types of maintenance?
- f) What is software Crisis?
- g) What is SCRUM?
- h) What is command line interface (CLI)?
- i) What are the components of DFD?
- j) Draw the diagram of SPIRAL model.

**Part –B (Answer any four questions)**

- Q3** a) Describe prototype model with diagram. **(10)**  
b) What are the advantage and disadvantage of Spiral model? **(5)**
- Q4** a) What is Black Box Testing? **(10)**  
b) What is Code and code review? **(5)**
- Q5** a) Describe agile model. **(10)**  
b) What is software requirement specification (SRS)? **(5)**
- Q6** a) Describe SEI CMM? **(10)**  
b) What is software Reengineering process? **(5)**
- Q7** a) What is Object Oriented Design and Describe its important concepts of Object Oriented Design **(10)**  
b) What is Cohesion and coupling? **(5)**
- Q8** a) What is cyclomatic complexity measure? Describe with example. **(10)**  
b) What is software reusability? **(5)**
- Q9** a) What is client server technology? Describe three tiers Client -server architecture with suitable example. **(10)**  
b) What is Service-oriented architecture (SOA) and Describe its advantages and disadvantages. **(5)**