SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No: | | | | | | | | | | | | | | Total number of pages:[ ]
Total number of questions:06

B.Tech. || CSE || 6th Sem

SOFTWARE ENGINEERING

RP

(2011-2014 Batch)

Subject Code: BTCS-603

Paper ID: (for office use)

Time allowed: 3 Hrs **Max Marks: 60**

Important Instructions:

- **All questions are compulsory**
- **Assume any missing data**

PART A (2×10)

Q. 1. Short-Answer Questions: All COs

(a) Define functional and non functional requirements.

(b) What is the need of feasibility analysis?

(c) Highlight the activities in Project planning.

(d) Differentiate between verification and validation.

(e) What is meant by functional independence?

(f) What do you mean by code inspection and code walkthrough?

(g) State the advantages of LOC based cost estimation.

(h) How reverse engineering facilitates the maintenance process?

(i) Define quality assurance.

(j) What is the need for regression testing?

PART B (8×5)

Q. 2. Define software process. Explain four fundamental process activities which are common to all software processes. What are different types of software process models? CO1

OR

a) Why spiral model is called Meta model? CO1

b) What are the main activities carried out during requirement analysis and specification?

Q. 3. a) What is COCOMO model for estimation?

b) Assume that size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the average salary of software developers is Rs. 15,000 per month. Determine the effort required to develop the software product, the nominal development time, and the cost to develop the product. CO5

OR

a) Define risk management. What are the phases of risk management process? CO5

b) What is the purpose of following Rayleigh curve for staffing?

4. Explain the various coupling and cohesion methods for software design. CO3

OR

Elaborate with the necessary example the concept of Object modelling and Object oriented software development. CO3

5. Discuss about the various integration and debugging strategies followed in software development. CO4

OR

Describe the various black box and white box testing techniques. Use suitable examples for your explanation. CO4

Q. 6. Illustrate different tools and methods that can be used for requirement gathering. CO2

OR

What is SRS document? Why is it important to document the phases of the software development? CO2