

**BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER (REPEAT)
SOFTWARE ENGINEERING
BCA-404**

**SET
A**

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

Choose the correct answer from the following:

1X10=10

1. What is the primary purpose of requirements gathering?
 - a. To create a project budget
 - b. To define what the system or project should do
 - c. To allocate resources
 - d. To develop a project schedule
2. Why is the cost usually higher in the Incremental Model?
 - a. Due to repeated phases for each increment
 - b. Because no testing is done
 - c. Because it uses only one team
 - d. No planning is involved
3. The activity that distributes estimated effort across the planned project duration by allocating the effort to specific software developing tasks is
 - a. Project scheduling
 - b. Detailed schedule
 - c. Macroscopic schedule
 - d. None of the mentioned
4. A description of each function presented in the DFD is contained in a
 - a. data flow
 - b. process specification
 - c. control specification
 - d. data store
5. In data flow diagram, which among the following process is at the most detailed level?
 - a. Data flow
 - b. interface
 - c. Functional primitive
 - d. Transform description
6. _____ defines the properties of a data object and take on one of the three different characteristics.
 - a. data object
 - b. attributes
 - c. relationships
 - d. data object and attributes
7. Which of the following is a benefit of code review?
 - a. Reduced development time
 - b. Improved code quality and maintainability
 - c. Increased risk of defects
 - d. Reduced communication among developers

8. In the Incremental Model, each module passes through which phases?
- a. Design and testing only
 - b. Requirements, Design, Implementation, and Testing
 - c. Only implementation
 - d. Testing and maintenance
9. White Box techniques are also classified as
- a. Design based testing
 - b. Structural testing
 - c. Error guessing technique
 - d. None of the mentioned
10. Boundary value analysis belong to?
- a. White Box Testing
 - b. Black Box Testing
 - c. White Box & Black Box Testing
 - d. None of the mentioned

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(Descriptive)

Time : 1 hrs. 15 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Describe classical waterfall model. 5

2. a) Why layered technology is required for software? What are the advantages of spiral model over the other? 4+2+4=10
b) Describe the characteristics of a software.

3. What do you understand by white box testing & black box testing? Differentiate between them. 5+5=10

4. Write the rules for data flow diagram. Draw the context diagram for 'Student Information System'. 4+6=10

5. Write short notes on 5+5=10
 - a) components of software
 - b) Code standard & guideline

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