



# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : BCAC402 Software Engineering

UPID : 400087

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

## Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[ 1 x 10 = 10 ]

- (I) Black box testing falls in the category of \_\_\_\_\_ testing.
- (II) What is the full form of ERP?
- (III) What is the full form of CBIS?
- (IV) Name one dynamic UML diagram.
- (V) Testing can uncover the presence of \_\_\_\_\_ in the program.
- (VI) State the full form of ISO.
- (VII) Name the model which takes risk analysis as one of its phase?
- (VIII) What is data about data also known as?
- (IX) What is the "V" model?
- (X) Processes for developing software are ad hoc and not well defined in organizations which are in which phase of the capability maturity model (CMM)?
- (XI) The SRS should be \_\_\_\_\_ in nature, which means that each sentence in SRS should have a unique and clear interpretation.
- (XII) What is the map of the overall structure of a database called?

## Group-B (Short Answer Type Question)

Answer any three of the following :

[ 5 x 3 = 15 ]

2. Compare and contrast the Waterfall and Spiral model. [5]
3. What are the general characteristics of user interfaces? [5]
4. Distinguish testing and debugging. Compare alpha testing and beta testing. [5]
5. Write a short note on ERP modules. [5]
6. What are the advantages and disadvantages of Supply Chain Management (SCM)? [5]

## Group-C (Long Answer Type Question)

Answer any three of the following :

[ 15 x 3 = 45 ]

7. What is SDLC? Discuss the phases of SDLC along with a diagram. What is the Waterfall model? [ 2+10+3 ]
8. What is feasibility analysis? When and why it is done? Discuss the different types of feasibility analysis. [ 3+3+9 ]
9. Describe each of the following: Unit testing, integration testing, and system testing. In the context of software testing, what is a stub and what is a driver? [ 9+6 ]
10. What is the main purpose of ISO 9000? What is a drawback of ISO 9000? State the benefits of ISO 9000. How is ISO 9000 implemented? [ 3+3+3+6 ]
11. What is ERD? State its three components. Draw the ERD for a Student Admission System. [ 3+5+7 ]

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