

2011000605040001
EXAMINATION NOVEMBER 2024
BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)
(MASTER OF SCIENCE (INFORMATION TECHNOLOGY) 5
YEAR INTEGRATED COURSE) (FIFTH SEMESTER)
SYSTEM ANALYSIS & DESIGN - LEVEL 4

[Time: As Per Schedule]

[Max. Marks:70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) (MASTER OF SCIENCE (INFORMATION TECHNOLOGY) 5 YEAR INTEGRATED COURSE) (FIFTH SEMESTER)**
 - b. Name of the Subject: **SYSTEM ANALYSIS & DESIGN – LEVEL 4**
 - c. Subject Code No: **2011000605040001**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions (any Three).

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1. What is software? Explain software myth in detail.
2. What is coupling? Explain its types.
3. What is prototype model? Explain advantages and disadvantages of it.
4. What is the agile methodology? Explain scrum in brief.

Q.2 Answer the following questions (any Six).

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1. Differentiate between waterfall and spiral model.
2. Explain abstraction design concept in brief.
3. What is QFD process?
4. Explain Orthogonal Array Testing with an example.
5. Explain difference between validation and verification.
6. What are the non-functional requirements?
7. Explain difference between alpha and beta testing.

Q.3 Attempt any Three.

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1. What is an activity diagram? Create an activity diagram for withdrawal process of ATM system.
2. What is software design? Discuss about software design principles.
3. Draw a 0 level and 1 level DFD for Hotel management system.
4. Explain 6 umbrella activities.

Q.4 Do as directed (any Four)

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1. Create a use case diagram for movie ticket booking system.
2. What is software testing? Explain unit testing in detail.
3. Explain RAD model in detail.
4. Explain black box testing.
5. Explain basic notations of class diagram with an example.
