

## Faculty of Humanities and Social Science Semester: III

Subject: System Analysis and Design

2023

## Group B

## Attempt any SIX questions

- Define information system. Explain different types of information system.
- 3. What is meant by baseline project plan? Explain major parts of baseline project plan.
- Explain various interactive methods with example of each.
- Define system testing. Write and explain types of system tests.
- 6. "Documentation play vital role in system development and review Justify this statement.
- 7. Why system maintenance is important? Explain different types of maintenance.
- 8/ What is normalization? Explain the major objectives of database design.

### Group C

## Attempt any TWO questions

- 9. Define DFD. Write rules to draw a DFD. Draw a DFD upto level 1 for library management system.
- 10. a) Write guidelines to design a forms and reports
  - b) Explain types of system implementation.
- 11. What is system requirement analysis? Write and explain different types for determining system requirements.

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2022

## Group B

## Attempt any SIX questions

- You have been hired as a project manager of a large government project to replace an aging air traffic control system. Would you choose waterfall or agile as your application development method? Explain your decision.
- Explain the roles and responsibilities of software project manager in project development.
- 4. Giving a simple example, explain how ER schemas are converted into a set of relations. Your example should have the use of multivalued and composite attributes too.

  Cardinality is a must.
- 5. What is meant by deliverable? Explain the major deliverables of planning phase.
- 6. What is the significance of normalization? Explain 2NF giving a suitable example.
- 7. Explain different approaches to installation? Which one is most expensive and risky?
- 8. A system costs RS 2,00,000 to install. The profit per year is RS. 50,000. Assuming an interest rate is 6%, what is the payback period of the investment?

## Group C

#### Attempt any TWO questions

- List rules for diagramming DFDs. Draw a context diagram and expand it to top level logical DFD for Student Enrollment System. The enrollment process works as follows.
  - Students send in an application form containing their personal details and their desired course.
  - The university cheeks that the course is available and that the student has necessary academic qualifications.
  - If the course is available, the student is enrolled in the course, and the university
    confirms the enrollment by sending a confirmation letter that they are registered
    for the course.
  - If the course is unavailable, the student is sent a rejection letter.
- 10. Explain the factors that influence the cost of maintenance. Explain the steps involved in maintenance process and contrast them with the phases of system development life cycle.
- 11. What qualities a software tester should have? What are the deliverables from coding, testing and Installation? Explain different types of Software testing in detail.

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#### 2021

## Group B

## Attempt any SIX questions

- Describe and compare the various sources of software.
- 3. What different skills do you need to be a good systems analyst?
- 4. Describe the steps involved in corporate strategic planning.
- 5. What are the steps in creating decision table? How do we reduce the size and complexity of a decision table?
- 6. What is information gathering? Discuss questionnaire along with its merits and demerits.
- 7/ Explain different types of software testing?
- 8. How can you transform ER Diagram into relation? Explain with your own suitable example.

#### Group C

## Attempt any TWO questions

- 9. Assuming monetary benefits of an information system at Rs 85,000 per year, one-time costs of Rs 75,000, recurring costs of Rs 35,000 per year, a discount rate of 12 percent, and a five-year time horizon, calculate the following:
  - a) Net present value of the costs and benefits.
  - b) The overall return on investment.
  - The point at which breakeven occur.
- 10. What do you mean by software maintenance? Explain the different types of maintenance? Explain the process of maintaining the information system with examples.
- 11. Why we draw DFD? Explain the process of drawing DFD using suitable example.

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2020

## Group B

## Attempt any SIX questions

- What is system? What are the phases of SDLC? Explain Briefly.
- 3. What do you mean by planning? Write the process of planning for Information System Development Project?
- 4. Define Process Modeling. Explain DFD with Example.
- 5. List and explain the skills and responsibilities of project manager.
- 6. Explain the guidelines to design in an interface and dialogue box e-commerce system.
- 7. Differentiate between system and user documentation with their applications.
- 8. Define software testing. Explain software quality assurance activities

### Group C

#### Attempt any TWO questions

- What are the major differences between Agile methodologies and Waterfall Model?
   Why should you use agile methodologies? Explain.
- How can you transform ER Diagram into relation? Explain with your own suitable example.
- 11. Why is Project Management important? Describe the concept of integrated CASE Tools with its applications.

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## Faculty of Humanities and Social Science Semester: III

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2019

## Group B

## Attempt any SIX questions

- Elaborate on the steps in feasibility of analysis.
- 3. Explain what is system and what are its characteristics of a system in details?
- 4. Why is it difficult to determine user requirement? Illustrate the key strategies for eliciting information about user requirement.
- 5. Distinguish between system and user documentation and determine which types of documentation are necessary for a given information system.
- Explain and contrast four types of maintenance.
- 7. Differentiate between questionnaire and interview Survey
- 8. What is difference between a 2NF and 3NF

#### Group C

#### Attempt any TWO questions

- List and Describe the skills and activities of a project manager during project initiation, project execution and project close down.
- Draw context diagram, Data flow Diagram up to level-2 of food ordering system of Bakery Cafe Jawlakhel- Lalitpur.
- 11 How can you transform E-R diagram into relation? Explain with suitable examples. A Bank has the following policy on deposits of Rs 50,000/- and above for five years above, the interest rate is 15%. On the same deposit for period user less than 5 years it is 12%. On the deposit below Rs 50,000/- the interest rate is 10% regardless of period and deposit. Write the above process using:
  - a. Decision Table
  - b. Decision Tree

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