PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Ouestion 1 is compulsory and carries 20 marks. Answer to 0.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the O.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

## 0.1 Choose the correct or the best alternative in the following:

 $(2\times10)$ 

- a. Strategic information is :-
  - (A) haphazard

(B) well organized

(C) unstructured

- (**D**) partly structured
- b. The quality of information which is based on understanding user needs is:
  - (A) complete

**(B)** trustworthy

(C) relevant

- **(D)** timely
- c. Organizations are divided in to departments because:
  - (A) it is convenient to do so
  - (B) each department can be assigned a specific functional responsibility
  - (C) it provides opportunities for promotion
  - (**D**) it is done by every organization
- d. The role of a system analyst drawing up a requirements specification is similar
  - (A) architect designing a building
  - (B) a structural engineer designing a building
  - (C) a contractor constructing a building
  - (**D**) the workers who construct a building
- e. A feasibility study is carried out
  - (A) after final requirements specifications are drawn up
  - (B) during the period when requirements specifications are drawn up
  - (C) before the final requirements specifications are drawn up
  - (**D**) at any time

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- f. System design is carried out
  - (A) as soon as system requirements are determined
  - (B) whenever a system analyst feels it is urgent
  - (C) after final system specifications are approved by the organization
  - (**D**) whenever the user management feels it should be done
- g. Managers in organizations should not design their own system as
  - (A) systems have to interact with other systems
  - (B) they do not have the special skills necessary to design systems
  - (C) it is not their job
  - (**D**) they are always very busy
- h. Data flow diagrams are used to depict
  - (A) how and when data, flows in an organization
  - (B) what documents flow in a organization
  - (C) what data flows between entities and how they are processed
  - (**D**) how data are generated and flow in an organization
- i. In UML diagrams of a class
  - (A) state of object cannot be represented
  - **(B)** state is irrelevant
  - (C) state is represented as an attributes
  - (**D**) state is represented as a result of an operation
- j. Access right to a database is controlled by
  - (A) top management
- (B) system designer

(C) system analyst

(**D**) database administrator

## Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

- **Q.2** What is the main differences between strategic and tactical information? If an information system were to be designed for a hospital, what would be the strategic and tactical information? **(8)** 
  - b. What are the advantages of using automated tools and technology? Briefly describe three classes of automated tools.
- a. What are the characteristics of a good information system? List tasks performed Q.3 by system analyst. **(8)**

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Code:	DC	59 Subject: ANALYSIS & DESIGN OF INFORMATION	(8) (8)
	b.	Enumerate and explain stages of Information system life cycle.	O THE
Q.4	a.	Explain the concept of Use-Case Modelling by taking a suitable example.	(8)
	b.	What do you understand by logical data model? How it helps to organize database?	(8)
Q.5	a.	Why is object-oriented modelling used in practice? When is object-oriented modelling particularly useful?	1 (5)
	b.	What is prototyping? Mention same of the benefits of prototyping.	(5)
	c.	Write a brief note an request for quotations.	(6)
Q.6	a.	Write about various guidelines to be followed for designing a user-interface design.	e (8)
	b.	What should be characteristics of a pop-up menu?	(4)
	c.	Explain paging and scrolling.	(4)
Q.7	a.	Discuss various design patterns used for developing a object oriented system software.	m (8)
	b.	What is visibility in object-oriented design? Explain the different levels of visibility.	(8)
Q.8	a.	Write about the advantages of having a technical support system for system operations.	n (6)
	b.	Describe the problems associated with construction and implementation of software system.	any (5)
	c.	What is the definition of operations and support systems? Discuss its functalso.	ions <b>(5)</b>
Q.9	a.	What is model-driven analysis? Why is it used?	(5)
	b.	Explain why decision analysis phase needed?	(5)

do in this phase?

**(6)** 

c. What is the goal of Problem Analysis phase? What are different tasks that you