ROLL NO.	

Code: DC59 Subject: ANALYSIS & DESIGN OF INFORMATION SYSTEMS

Diplete - CS

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.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.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.
- Q.1 Choose the correct or the best alternative in the following:

 (2×10)

- 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 to:
 - (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

ROLL NO.	

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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 a. 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?
 - b. What are the advantages of using automated tools and technology? Briefly describe three classes of automated tools. (8)
- Q.3 a. What are the characteristics of a good information system? List tasks performed by system analyst.(8)

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b. Enumerate and explain stages of Information system life cycle. **(8)** a. Explain the concept of Use-Case Modelling by taking a suitable example. (8) 0.4 b. What do you understand by logical data model? How it helps to organize database? **(8)** 0.5 a. Why is object-oriented modelling used in practice? When is object-oriented modelling particularly useful? **(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. **(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. **(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. **(6)** b. Describe the problems associated with construction and implementation of any software system. **(5)** c. What is the definition of operations and support systems? Discuss its functions also. **(5)** a. What is model-driven analysis? Why is it used? 0.9 **(5)** b. Explain why decision analysis phase needed? **(5)**

do in this phase?

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