Subject: ANALYSIS & DESIGN OF INFORMATION SYSTEMS

DiplETE - CS (Current & New Scheme)

June 2018 Time: 3 Hours Max. Marks: 100

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.

| Q.1 | Choose the correct or the best alternati | ve in the following: | (2×10 | | |
|-----|--|-----------------------------------|---------|--|--|
| | a. The utility software that is in between application software and systems software | | | | |
| | is known as | (D) ADE | | | |
| | (A) Human ware(C) Middleware | (B) ADE (D) Interface | | | |
| | (C) Middleware | (b) interface | | | |
| | b. System design is carried out | | | | |
| | (A) whenever the user management feels it should be done | | | | |
| | (B) as soon as system requirements are | e determined | | | |
| | (C) whenever a system analyst feels it | _ | | | |
| | (D) after final system specifications are | e approved by the organization | | | |
| | c. Requirement specification is carried out | | | | |
| | (A) simultaneously with requirements determination | | | | |
| | (B) independent of requirements determination | | | | |
| | (C) after requirements are determined | | | | |
| | (D) before requirements are determined | d | | | |
| | d. In a, one module of the no | ew information system is activate | ed at a | | |
| | time | | | | |
| | | | | | |
| | (A) Success factors | (B) Phased Conversion | | | |
| | | | | | |
| | (A) Success factors | (D) CASE tool | called | | |
| | (A) Success factors(C) System Development Life Cycle | (D) CASE tool | called | | |

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| | g. In processing, controls must be established in a system, in order to (A) Block or trap faulty data from entry into processing (B) Prohibit tampering with information by unauthorized person (C) Verify that all data have been processed (D) All of these | | | | |
|--|---|---|--|------|--|
| | h can be defined as data that has been processed into a fo meaningful to the recipient and is of real or perceive value in a prospective decisions. | | | | |
| | | (A) System(C) Information | (B) Service (D) Technology | | |
| | i. | can be defined as most rectechnique for solving computer problems (A) System Procedure (C) System Data | | | |
| | j. | The major task involved in decision anal (A) To communicate the requirements st (B) To recommend a system solution (C) To establish system improvement ob (D) To define acceptance test cases | atements | | |
| Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks. | | | | | |
| Q.2 | a. | Differentiate between system analysi responsibility of system analyst with resp | <u> </u> | (8) | |
| | b. | Explain the different classes of Informati | on System Applications. | (8) | |
| Q.3 | a. | Explain the software development life cy | cle with an example. | (8) | |
| | b. | Explain the concept of Object Oriento purposes? What is Object Modeling? | ed Analysis and Design. What are its | (8) | |
| Q.4 | a. | What is Rapid Architected Analysis? Dapplying rapid architected analysis. Give | <u> </u> | (8) | |
| | b. | Why is the decision analysis phase ne Candidate Solutions? | eded? What are some ways to identify | (8) | |
| Q.5 | a. | Explain various steps in use case modeling | ng. Give an example for illustration. | (8) | |
| | b. | | ata Modelling: (2 Attributes Cardinality | 2×4) | |

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| Q.6 | a. | What is polymorphism? When is it applied? | (4) |
|------------|----|--|------------|
| | b. | What do you understand by -"The Buy" Solution from Systems Design for Integrating Commercial Software? | (4) |
| | c. | Describe the steps for organizing the objects & identifying their relationships using class diagram. Give an illustration. | (8) |
| Q.7 | a. | Explain the features of any three Graphical User Interface Styles and Considerations. | (6) |
| | b. | Explain in brief the role of automated tools for User Interface Design and Prototyping. | (4) |
| | c. | What are the four types of UML diagrams? | (6) |
| Q.8 | a. | Explain the term Control Classes, Persistence Classes, and System Classes in brief. | (8) |
| | b. | Compare the differences between strategy pattern and adapter pattern. | (8) |
| Q.9 | a. | What are some of the tasks suggested in technical support? Why will system enhancement occur? | (8) |
| | b. | Briefly explain the commonly used installation strategies of conversion plan. | (8) |