## Diplete - CS (OLD SCHEME)

Shirden Bounty.com Code: DC06 Subject: ANALYSIS AND DESIGN OF INFORMATION SYS Max. Marks: Time: 3 Hours

## **DECEMBER 2010**

**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 half an hour 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.

| O.1 Choose the correct or the best alternative in the followi | 0.1 | 0.1 | 1 Choose the | correct or the | he best al | lternative in | the fo | llowing |
|---|-----|-----|--------------|----------------|------------|---------------|--------|---------|
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 $(2\times10)$ 

- The approach to system output by using the principle of management by perception is considered as
  - (A) backward looking.
- (B) forward looking
- (C) historical approach.
- **(D)** none of the above.
- b. Which of the following tools are used in SASD?
  - (A) HIPO

(B) CASE

(C) DFD

- **(D)** All of the above.
- c. In considering the total cost associated with desired information, cost of data collection, data input and computer processing costs are
  - (A) One time

**(B)** Temporary.

(C) Permanent

- (D) Recurring.
- d. The main advantage of normalized relations in relational DBMS is
  - (A) highly secure.
  - **(B)** do not suffer from anomalies during delete and update operations.
  - (C) occupy minimal storage.
  - **(D)** All of the above.
- e. Structured English is defined as
  - (A) grammatically correct description of the system.
  - (B) a tool for the Systems Analyst to document the processing procedure using action oriented verbs and terms defined in the data dictionary.
  - (C) and terms defined in the data dictionary.
  - **(D)** None of the above.

## THE THEOLINEY. COM f. DSS Role is (A) trial and error search for solutions. **(B)** Planning. (C) Analyzing alternatives. **(D)** All of the above g. The most important reason for MIS failure is (A) use of improper tools for design **(B)** on involvement of end users (C) improper specification **(D)** none of the above. h. A structure chart (A) shows module inter-relationships in a hierarchical manner. (B) describes the internal structure of a program in a graphical manner. (C) is a graphical representation of structured English. (**D**) depicts data structures in the form of a chart. i. In a hospital data base system, the data relationship between the entity "Patient" and the entity "ward" can be (A) One-to-One. **(B)** One-to-many. (C) Many-to-One. (D) Many-to-Many. j. Stub is used in the context of (A) Data communication. **(B)** Testing of modules. **(D)** None of the above. (C) Random access. Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks. a. Define a 'System'. Write at least five characteristics of a system. Draw system development diagram. **(8)** b. Explain the role of following technology drivers used in information systems:-(i) Networks and internet (ii) Object Technologies (iv) Enterprise application (iii) Collaborative Technologies **(8)**

## Q.2

Q.3 a. Describe SDLC and its stages in brief. (8)

b. Describe role of system analyst as:-

**(8)** 

- (i) Change agent
- (ii) Investigator or Motivator
- (iii) Sales Person
- (iv) Politician

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| Q.4 | a. | During initial investigation what is the importance of (i) On site observation (ii) Interviews and questionnaires?  What is DFD, describe its importance and symbols?  What is "Cost/Benefit" Analysis, what are the cost elements need to be consider during this analysis:- | de                 |
|     | b. | What is DFD, describe its importance and symbols?   | (10)               |
| Q.5 | a. | What is "Cost/Benefit" Analysis, what are the cost elements need to be consider during this analysis:-  | e (8)              |
|     | b. | Explain Functional decomposition?   | (8)                |
| Q.6 | a. | What is the purpose of System testing, mention the criteria used for system testing?  | m<br>( <b>8</b> )  |
|     | b. | What is the necessity of user training & mention training aids available for it?  | or<br>(8)          |
| Q.7 | a. | Why do Systems failure occurs, give known possible reasons?   | (8)                |
|     | b. | Describe these terminologies:   | (8)                |
|     |    | <ul><li>(i) Project management &amp; its functions</li><li>(ii) Expectancy theory.</li><li>(iii) PERT.</li><li>(iv) System flow chart</li></ul>   |                    |
| Q.8 | a. | Differentiate between:  (i) System analyst & Technical writer.  (ii) Top- down design & Top down programming.  (iii) Tangible cost & variable cost.  (iv) Stress testing & string testing.  | (8)                |
|     | b. | Differentiate between "System security" & "System integrity" als mention threats to System security?  | so<br>( <b>8</b> ) |
| Q.9 | a. | Write about these given terminologies.  (i) MIS (Management Information System)  (ii) Overhead  (iii) CPM  (iv) Request for Proposal (RFP).   | (8)                |
|     | b. | Write about these given terminologies (i) Brainstorming (ii) Bulletin Board System (BSS) (iii) Audit testing  | (8)                |

(iv) Decision Support System (DSS)