

DiplETE – CS (OLD SCHEME)

Code: DC07
Time: 3 Hours

DECEMBER 2010

Subject: BUSINESS SYSTEMS
Max. Marks: 100

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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.

Q.1 Choose the correct or the best alternative in the following: (2 × 10)

- a. To process data, the data processing machines need
- (A) only data (B) only instructions
(C) data and instructions both (D) none of the above.
- b. Protecting the data from unauthorized access is called
- (A) data inaccessibility (B) data encryption
(C) data security (D) data validity
- c. Distributed data entry means that data can be
- (A) entered at different locations where it originates
(B) sent to different locations from a central place
(C) accessed from different places known as distribution points
(D) distributed through a network
- d. The two basic types of record-access methods are
- (A) sequential and random (B) direct and immediate
(C) sequential and indexed (D) on-line and real-time
- e. One disadvantage of a direct access file is:
- (A) the delay in computing the storage address
(B) duplication of address locations
(C) unused, but available, storage locations
(D) all of the above
- f. Which of the following use(s) English like statements to represent program logic?
- (A) Flow chart (B) ANSI symbols
(C) Pseudo code (D) Algorithm

- g. A computer program consists of
 - (A) a flowchart
 - (B) algorithms
 - (C) algorithms written in computer's language
 - (D) discrete logic steps

- h. Internal auditors should review data system design before it is
 - (A) developed
 - (B) implemented
 - (C) modified
 - (D) all of the above

- i. Choose the RDBMS which supports full-fledged client-server application development.
 - (A) Dbase V
 - (B) Oracle 7.1
 - (C) FoxPro 2.1
 - (D) Ingress

- j. EDP auditors can be used in the
 - (A) implementation phase of MIS development
 - (B) planning phase of MIS development
 - (C) analysis and design phase of MIS development
 - (D) all of the above

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

- Q.2** a. What is data processing? Differentiate between data and information. (5)

- b. Explain the following terms:
 - (i) Data Capture
 - (ii) File Recovery (2+3)

- c. Explain the commonly used file organizations in business data processing applications. (6)

- Q.3** a. What is a flowchart? A student appears in an examination that consists of total 10 subjects each subject having maximum marks of 100. The roll number of the student, his/her name and marks obtained by his/her in various subjects are supplied as input data. Such a collection of related data items that is treated as a unit is known as a record. Draw a flowchart to calculate the percentage marks obtained by the student in this examination and then to print it along with his/ her roll number and name. (8)

- b. Differentiate between an assembler and a compiler. (4)

- c. List any four benefits of database management system. (4)

- Q.4** a. Explain program life cycle in detail.
b. Explain the concept of modular programming. (8)
- Q.5** a. What is sorting ? Can we sort data on multiple fields using **sort**? Explain with an example. (5)
b. What is a macro? Explain the procedure to create a macro. (8)
c. Explain the following functions used in FoxPro:
(i) CTOD ()
(ii) DTOC ()
(iii) DATE () (3)
- Q.6** a. Explain the following loops in FoxPro with an example of each.
(i) If – Endif
(ii) Scan- Endscan (8)
b. How can Object Linking and Embedding (OLE) achieved in FoxPro? (8)
- Q.7** a. What is documentation? Why is proper documentation of software needed? (8)
b. What is a threat to a system? Identify potential threats to security of IT infrastructure. (8)
- Q.8** a. Differentiate between distributed database and centralized database systems? (8)
b. Explain information system audit in detail. Clearly specify the objectives and the need of system audit. (8)
- Q.9** Write short notes on the following:
(i) Computer applications in business
(ii) Structured approach to programming
(iii) Levels of management in a business system. (5+5+6)