ADIT/BIT PROGRAMME

Term-End Examination
December, 2011

CSI-04 : COMPUTING SOLUTIONS

Time : 3 hours   *Maximum Marks : 75*

Note :   *There are two sections in this paper. All the questions in section - A are compulsory. Answer any three questions from section - B.*

SECTION - A

Each objective type question (*1 to 5*) carries *1* mark.   **5x1=5**

1.   Information technology involves _____ of information.

   (a)   Data generation

   (b)   Information processing

   (c)   Information deletion

   (d)   Natural language processing

2.   One of the ways of computer security is :

   (a)   take periodic backup

   (b)   store data on virus free disk

   (c)   donot put computer on a network

   (d)   keep a check on misuse

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3. To get information about a system during system investigation, you can use :
   (a) Old files of the organisation
   (b) Standard manual
   (c) Work information
   (d) Questionnaire

4. _____ can be used to send similar letter to multiple destinations :
   (a) Word processor·
   (b) Spreadsheet
   (c) Mailing Software
   (d) None of the above

5. The time taken to submit a job and return of output is called :
   (a) Response time
   (b) Operating time
   (c) Turnaround time
   (d) Waiting time

6. Fill in the blanks (Write your answers in the answerscript)   5
   (a) Every project goes through the same process of analysis, design and implementation. These processes are the stages of _____.
   (b) The electronic transfer of money using electronic authorisation codes is called _____.

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(c) Testing of individual programs of a software is called _____.

(d) For doing text processing, you require a _____ software.

(e) Processed data is called _____ .

7. What are the different tools that you may use in an office for the following purpose. Give at least 4-5 features of the tool that you have stated. **10**

(a) Sending quotation to 20 different clients through postal mail letters. You may need to generate letters and mailing labels.

(b) Storing sales records of a company.

(c) Keeping your day to day simple accounts.

(d) Communicating electronically with your clients.

8. How can you measure efficiency of a computer system ? Explain. **4**

9. Explain the following terms. **6**

(a) Review and evaluation phase of software development.

(b) Debugging of program.

(c) Structure chart for program design.

SECTION - B

10. (a) Explain the terms data, information and knowledge in the context of information processing with the help of an example.   6

    (b) Why do you need CASE tools ? Explain various features of the CASE tools.   9

11. (a) Explain the following terms in the context of measuring and accessing a system :   10
      (i) Accuracy   (ii) Validity
      (iii) Availability   (iv) Overload
      (v) Flexibility

    (b) What is CATA test ? Define each term in CATA.   5

12. (a) What is a DBMS ? Explain the terms data definition and data manipulation in the context of database management system with the help of an example.   8

    (b) Define the term "Expert System." Why are they needed ? Explain how an expert system can be used for health care of patients.   7

13. Explain the following with the help of an example/diagram, if needed.   15
    (a) Relational Database Model
    (b) Systems Analysis
    (c) System Design
    (d) Information Technology
    (e) Artificial Intelligence