CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination

□1172   **June, 2017**

CIT-001 : FUNDAMENTALS OF COMPUTER SYSTEMS

Time : 2 hours   *Maximum Marks : 50*

(Weightage : 75%)

Note : *All the questions from Section A are **compulsory**.*
*Answer any **three** questions from Section B.*

SECTION A

1.   Answer the following multiple choice questions.
     Only one of the answers is correct.   *10×1=10*

   (a)   Which of the following is *not* a semiconductor
         memory ?
         (i)   RAM
         (ii)   ROM
         (iii) CD-ROM
         (iv)   EEPROM

   (b)   Identify which of the given devices is *not*
         an input device.
         (i)   Mouse
         (ii)   Speaker
         (iii) Scanner
         (iv)   Joystick

(c) Which of the following is *not* an application software ?

(i) MS Word

(ii) MS Internet Explorer

(iii) MS Excel

(iv) MS Windows 7

(d) ⟋▭⟋ symbol is used for

(i) Input or output operations

(ii) Decision box

(iii) Start or end

(iv) Connector

(e) '=' is a _____ operator.

(i) equal to

(ii) assignment

(iii) arithmetic

(iv) relational

(f) In order to make a connection using a Modem, which of the following is *not* needed ?

(i) Software drivers

(ii) Access to telephone line

(iii) Magnetic tape

(iv) Data communication software

(g) Choose the device which is *not* a network device.

(i) Mic

(ii) Repeater

(iii) Network interface card

(iv) Hub

(h) Which of the following is *not* an unguided media ?

    (i) Optic fiber

    (ii) Infrared

    (iii) Microwaves

    (iv) Radio waves

(i) _____ is *not* a security threat.

    (i) Physical security threat

    (ii) Password security threat

    (iii) Power supply security threat

    (iv) Network security threat

(j) Which of the following is *not* a network security threat ?

    (i) DOS attack

    (ii) Data interception

    (iii) Unauthorized access

    (iv) Firewall

2. (a) Explain various types of operators available in 'C'.   5

    (b) Draw the flow chart for accepting the marks of 10 students in five subjects and to display the total marks of each of the students.   5

SECTION B

3. (a) Discuss the working of Central Processing Unit explaining its various components. *6*

(b) Explain various types of main memory. *4*

4. (a) What are application softwares and system softwares ? Discuss various types of system softwares. *6*

(b) Explain database development life cycle. *4*

5. (a) Write a program in 'C' to find out the average of five real numbers entered from the keyboard. Also print these numbers and their average. *6*

(b) Discuss the functioning of (i) Hub, (ii) Switch and (iii) Router. *4*

6. (a) Discuss the characteristics, advantages and disadvantages of LAN, MAN and WAN. *6*

(b) Explain briefly various elements of network security. *4*