CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)
Term-End Examination
□□□1꒱   December, 2018

CIT-001 : FUNDAMENTALS OF COMPUTER SYSTEMS

Time : 2 hours   *Maximum Marks : 50*
                              (Weightage : 75%)

Note : *There are **two** section in this paper, Section A and Section B. **All** the questions from section A are **compulsory**. Attempt any three questions from section B.*

SECTION A

1. Answer the following multiple choice questions :   *10×1=10*

    (a)   WWW stands for
           (i)   World Whole Web
           (ii)   Wide World Web
           (iii) Web World Wide
           (iv)   World Wide Web

    (b)   Which of the following are the components of CPU ?
           (i)   Arithmetic logic unit, Mouse
           (ii)   Arithmetic logic unit, Control unit
           (iii) Arithmetic logic unit, Keyboard
           (iv)   Control unit, Monitor

(c) Which among the following did the first generation of computers have ?

    (i) Vacuum tubes and magnetic drum

    (ii) Integrated circuits

    (iii) Magnetic tape and transistors

    (iv) All of the above

(d) Where is the RAM located ?

    (i) Expansion Board

    (ii) External Drive

    (iii) Motherboard

    (iv) All of the above

(e) If a computer has more than one processor, then it is known as

    (i) Uniprocessor

    (ii) Multiprocessor

    (iii) Multithreaded

    (iv) Multiprogramming

(f) If a computer provides database services to clients, then it is known as

    (i) Web server

    (ii) Application server

    (iii) Database server

    (iv) FTP server

(g) Full form of URL is

    (i) Uniform Resource Locator

    (ii) Uniform Resource Link

    (iii) Uniform Registered Link

    (iv) Unified Resource Link

(h) Which of the following is *not* a layer in the OSI model ?

    (i) Session layer

    (ii) Transport layer

    (iii) Network layer

    (iv) Database layer

(i) Technology used to provide internet by transmitting data over wires of telephone network is

    (i) Transmitter

    (ii) Diodes

    (iii) HHL

    (iv) DSL

(j) Which level language is an Assembly Language ?

    (i) High Level Programming Language

    (ii) Medium Level Programming Language

    (iii) Low Level Programming Language

    (iv) Machine Language

2. (a) Write a C program to find the sum of given series :   5

    $1 + 2 + 3 + \ldots + 10$.

(b) Differentiate between seek time and latency time of a hard disk.   5

SECTION B

3. (a) Define Information security and Computer security with suitable examples.   *5*

    (b) What is the difference between Symmetric key and Asymmetric key encryption systems ?   *5*

4. (a) What is main memory ? Briefly explain different types of main memory.   *5*

    (b) What is virus ? Classify different types of viruses.   *5*

5. (a) Differentiate between Analog data and Digital data with suitable examples.   *5*

    (b) What is Modem ? Differentiate between internal and external modem.   *5*

6. Discuss OSI model and TCP/IP model with illustrations.   *10*

———