| **BICS-027** |

DIPLOMA – VIEP – COMPUTER SCIENCE AND ENGINEERING (DCSVI) / ADVANCED LEVEL CERTIFICATE COURSE IN COMPUTER SCIENCE AND ENGINEERING (ACCSVI)

Term-End Examination

ロロ713

December, 2016

BICS-027 : COMPUTER ORGANIZATION

Time : 2 hours   *Maximum Marks : 70*

*Note : Question no. 1 is **compulsory**. Attempt any **four** questions from the remaining. All questions carry equal marks.*

1. (a) System software is closer to the hardware and performs low-level tasks.

     (i) True

     (ii) False

   (b) CD-ROM stands for

     (i)   Compact Disk Read Only Memory

     (ii) Compressed Disk Read Once Memory

     (iii) Contact Disk Read Only Memory

     (iv) Clear Disk Read Only Memory

(c) Random Access Memory is used as the main memory of computers.

(i) True

(ii) False

(d) In Batch Operating System, jobs are executed sequentially one after another.

(i) True

(ii) False

(e) In Ring topology, each node is directly connected to only its two adjacent neighbours.

(i) True

(ii) False

(f) TCP/IP stands for

(i) Transmission Control Protocol/Internet Protocol

(ii) Transfer Control Program/Internal Program

(iii) Terminate Control Protocol/Individual Program

(iv) Task Control Protocol/Internal Protocol

(g) EBCDIC stands for

(i) Extended Binary Coded Decimal Interchange Code

(ii) Extra Bit Code Data Internal Channel

(iii) Extended Binary Channel Data Interchange

(iv) Extra Byte Code Data Internal Code

7×2=14

2. (a) Explain different character codes using suitable examples. 7

(b) Explain different generations and classifications of computers. 7

3. (a) Explain different elements of a computer system. 7

(b) Explain and compare system software and application software using suitable examples. 7

4. (a) Explain Batch processing system in detail. 7

(b) Explain the different types of operating systems. 7

5. (a) What is network topology ? Also explain different network topologies using suitable diagrams. 7

(b) What is the importance of network communication devices ? 7

6. (a) Explain management information and decision support systems. 7

(b) What are the applications of a computer system in various domains ? 7

7. Explain any *four* of the following : $4 \times 3\frac{1}{2} = 14$

(a) Auxiliary Memory

(b) World Wide Web

(c) Flow Chart

(d) Complement Schemes

(e) Communication Protocol

(f) Fourth Generation Languages