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BICS-027

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

Term-End Examination

December, 2015

BICS-027 : COMPUTER ORGANISATION

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) There are 6 layers in TCP/IP.
- (i) True
 - (ii) False
- (b) In a star topology, various computers are attached to different points.
- (i) True
 - (ii) False

- (c) The number of bits in an ASCII code is
- (i) 4
 - (ii) 6
 - (iii) 7
 - (iv) 8
- (d) 2's complement of 0101 is
- (i) 0111
 - (ii) 1001
 - (iii) 1011
 - (iv) 1110
- (e) In Bus/Tree topology, the bus is used as a carrier for data packets.
- (i) True
 - (ii) False
- (f) BCD code is also known as 8-4-2-1 code.
- (i) True
 - (ii) False
- (g) FTP stands for
- (i) File Travel Protocol
 - (ii) Fixed Transfer Protocol
 - (iii) Float Transfer Protocol
 - (iv) File Transfer Protocol

7×2=14

2. (a) Explain different complementing schemes and then compare them. 7
- (b) What are the advantages and disadvantages of time sharing system? 7
3. (a) Explain the importance of binary number system in computers and explain the procedure of converting decimal numbers to any other number system. 7
- (b) Explain the features of RTOs. 7
4. (a) What are the major functions of network operating system? 7
- (b) What do you mean by TCP/IP? Why is it important for internet users? 7
5. (a) What is meant by FTP service? Under what circumstances would you like to use FTP? 7
- (b) What are the differences between multiprocessing and multiprogramming? 7
6. (a) Explain how computers are being used in banking and financial institutions. 7
- (b) Explain excess code-3 code. Why is it called a self-complementing code? 7

7. Explain any *four* of the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Data Communication Equipment
 - (b) Classification of Computers
 - (c) Network Topology
 - (d) Integer and Floating Point Representation
 - (e) World Wide Web
 - (f) Remote Sensing
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