

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

Term-End Examination

June, 2016

00236

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) Mnemonics are used in high level languages.
- (i) True
 - (ii) False
- (b) Fortran is an assembly language.
- (i) True
 - (ii) False

- (c) There are 4 layers in TCP/IP.
- (i) True
 - (ii) False
- (d) BCD code is also known as 8-4-2-1 code.
- (i) True
 - (ii) False
- (e) The number of bits in an ASCII code is
- (i) 4 (ii) 6
 - (iii) 7 (iv) 8
- (f) FTP stands for
- (i) File Travel Protocol
 - (ii) Fixed Transfer Protocol
 - (iii) Float Transfer Protocol
 - (iv) File Transfer Protocol
- (g) In star topology, various computers are attached to different points.
- (i) True
 - (ii) False 7×2=14

2. (a) What is an operating system ? Explain its types and applications. 7
- (b) Differentiate between time sharing and real time operating systems. 7

3. (a) Why is VDU considered as one of the most important output devices ? Explain the working of VDU in brief. 7
- (b) What is Hamming Code ? Explain with an example. 7
4. (a) What is ISO-OSI reference model ? Explain all the layers of OSI reference model. 7
- (b) Describe the features of various generations of computers. 7
5. (a) Explain the Telnet service in brief. What are the major advantages of this service ? 7
- (b) Explain machine code, assembly language and higher level languages. 7
6. Explain any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Inventory Control
- (b) Network Topology
- (c) Input-Output Device
- (d) Remote Sensing
- (e) TCP/IP
- (f) Fourth Generation Languages
7. What is a Computer Network ? Write down the applications of computers and computer networks in business, railways and hospital management systems. 14
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