

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

Term-End Examination

December, 2014

BICS-027 : COMPUTER ORGANISATION

Time : 2 hours

Maximum Marks : 70

Note : Attempt any *five* questions. Question no. 1 is *compulsory*. All questions carry equal marks.

1. (a) A computer program that converts assembly language to machine language is $7 \times 2 = 14$
- (i) Compiler
 - (ii) Interpreter
 - (iii) Assembler
 - (iv) None of the above
- (b) The symbols used in an assembly language are
- (i) Codes
 - (ii) Mnemonics
 - (iii) Assembler
 - (iv) None of the above

- (c) A device which is used to convert digital signals into analog signals :
- (i) Modulator
 - (ii) Demodulator
 - (iii) Modem
 - (iv) Decoder
- (d) TCP/IP has three layers.
(True/False)
- (e) A group of eight bits is known as a Nibble.
(True/False)
- (f) The ASCII code for letter A is 1000001.
(True/False)
- (g) Instructions given in a program do not define any actions for the computer.
(True/False)
2. (a) What is the difference between Digital, Analog and Hybrid Computers ? 7
- (b) Differentiate between Micro Computers and Mainframe Computers. 7

3. (a) What are the major differences between Machine language and High level language? 7
- (b) What is the difference between System software and Application software? 7
4. Explain the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Batch processing
- (b) Multi-programming
- (c) Time sharing
- (d) Multi-processing
5. (a) What do you mean by computer networking? What are the advantages of computer network? 7
- (b) Define Network Protocol. What is the need of protocols? Explain. 7
6. (a) What are the different applications of computers in business? Explain in detail. 7
- (b) Explain the different types of memories. Differentiate between RAM and ROM. 7
7. (a) Explain how computers are being used in banking and financial institutions. 7
- (b) What is the role of an output unit? Discuss the various types of output devices. 7

8. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$

- (a) BCD Code
 - (b) Floating Point Representation
 - (c) Gray Code
 - (d) Internet
 - (e) Network Topologies
 - (f) Network Operating System
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