

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

Term-End Examination

00479

June, 2015

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) The brain of any computer system is $7 \times 2 = 14$
- (i) ALU
 - (ii) Memory
 - (iii) Control Unit
 - (iv) None of the above
- (b) Which of the following is the 1's complement of (10) ?
- (i) 01
 - (ii) 11
 - (iii) 10
 - (iv) None of the above

- (c) The binary system uses powers of
 - (i) 2
 - (ii) 10
 - (iii) 8
 - (iv) 16
 - (d) There are 7 layers in TCP/IP. (True/False)
 - (e) Mnemonics are used in high level languages. (True/False)
 - (f) LAN is a set of client computers connected to one or more servers through either cable or wireless connection. (True/False)
 - (g) ASCII stands for American Standard Code for Information Interchange. (True/False)
2. (a) How are computers classified ? How are they different from one another ? 7
- (b) What is the difference between System Software and Application Software ? 7
3. (a) What is a bit ? Explain briefly volatile and non-volatile memory. 7
- (b) What are the advantages and disadvantages of Machine Language and Assembly Language ? 7

4. (a) What do you mean by Network topology ?
Explain the different topologies in detail. 7
- (b) Differentiate between LAN and WAN. 7
5. (a) Define Operating System. Why do we need
an operating system ? 7
- (b) What is the concept of the following types
of operating systems ? 7
- (i) Single program operating system
- (ii) Multi-program operating system
- (iii) Multi-processing operating system
6. (a) What are the applications of computers in
Medical Science ? 7
- (b) Explain how computers are being used in
Educational and Financial Institutions. 7
7. (a) What is Internet ? List the important
usages of Internet. 7
- (b) What do you mean by input devices for a
computer ? Discuss the various types of
input devices. 7

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

- (a) EBCDIC Code
 - (b) On-line and Real Time Operating System
 - (c) TCP/IP
 - (d) Internet Chatting
 - (e) Decision Support System
 - (f) Fourth Generation Languages
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