

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

Term-End Examination

December, 2011

BICS-027 : COMPUTER ORGANIZATION

Time : 3 hours

Maximum Marks : 70

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

1. (a) BCD code is also known as 8 - 4 - 2 - 1 code. 2
(i) True (ii) False
- (b) There are 6 layers in TCP/IP. 2
(i) True (ii) False
- (c) Fortran is an assembly language. 2
(i) True (ii) False
- (d) In Bus/Tree topology, the bus is used as a 2
carrier for data packets.
(i) True (ii) False
- (e) FTP stands for : 2
(i) File travel protocol
(ii) Fixed transfer protocol
(iii) Float transfer protocol
(iv) File transfer protocol

- (f) Transport layer takes care of the speed mismatch between senders and receivers 2
 (i) True (ii) False
- (g) The no. of bits in a ASCII code 2
 (i) 4 (ii) 6 (iii) 7 (iv) 8
2. (a) Perform the following subtraction using 2's complement : 7
 (i) 01000 – 01001
 (ii) 01100 – 00011
- (b) Explain excess - 3 code. Why it is called self complementing code ? 7
3. (a) Why is the VDU considered as one of the most important O/P device ? Explain the working of VDU in brief. 7
- (b) What are programming languages ? Explain the difference between machine, Assembly and a high level languages. 7
4. (a) Explain the features offered by RTOs. 7
- (b) What are the differences between multiprocessing and multiprogramming ? 7
5. (a) What do you mean by TCP/IP ? Why it is important for internet users ? 7
- (b) What is ISO OSI reference model ? Explain all the layers of OSI reference model. 7

6. (a) Explain the role of computers in education and research. 7
- (b) What do you understand by scientific and industrial problems ? How well they may be tackled with computers ? 7
7. (a) What do you mean by computer generations ? List the major advances in each generation in the development of computer technology. 7
- (b) Explain the Telnet service in brief. What are the major advantages of this service ? 7
8. Write short notes on : (*any four*) 4x3.5=14
- (a) Integer and floating point representation.
- (b) Input - Output devices
- (c) Batch processing
- (d) Network Topology
- (e) Remote sensing
- (f) World Wide Web
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