

# DIPLOMA - VIEP - COMPUTER SCIENCE AND ENGINEERING

## Term-End Examination

June, 2011

### BICS-027 : COMPUTER ORGANIZATION

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. All carry equal marks.

1. (a) Give notes on classification of computers. 5  
(b) Write the characteristics of computers. 5
2. Define the Input device and Out - put device, and describe any two input devices and two output devices. 10
3. (a) Explain the importance of binary number system in computer and explain the procedure of converting decimal numbers to any other number system. 6  
(b) Convert the following into decimal number system 4  
I  $(10111)_2$                       II  $(F9A)_{16}$
4. (a) Write the need of complement representation of numbers and explain 1's complement and 2's complement notation with example. 6  
(b) Explain Excess - 3 code and BCD code. 4

5. Give brief notes on high level languages. Describe different types of high level languages. What are the disadvantages of low level languages. 10
6. (a) Describe repeater, switch, and router in brief. 6  
(b) Give brief notes on TCP/IP protocols 4
7. (a) Describe the features of various generations of computers 5  
(b) Explain the various communication media in brief. 5
8. Briefly describe the GUI operating system and command based operating system. What are the advantages of GUI operating system over command based operating system. 10
9. Write down the importance of computer and computer network in business and education system. 10
10. Write short notes on *any two*. 5+5=10  
(a) Multiprogramming  
(b) Internet  
(c) Network topologies
-