01470

DIPLOMA - VIEP - COMPUTER SCIENCE AND ENGINEERING

Term-End Examination

December, 2010

BICS-027 : COMPUTER ORGANIZATION

Time : 3 hours   *Maximum Marks : 70*

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

1. (a) Draw the block diagram of computer and explain it.   6

    (b) Cónvert the following into decimal equivalent.   4
         (i) $(111011.101)_2$ (ii) $(D6C1)_{16}$

2. (a) Give brief notes on any two secondary storage devices.   5

    (b) Write the brief notes on RAM and ROM.   5

3. What is the role of modem and describe the RS 232 C in detail and RS 449 in brief ?   10

4. (a) Write down the reasons behind the development of high level languages and describe the assembler and compiler in brief.   6

    (b) What is operating system and why it is needed ?   4

5. (a) Explain the Half adder and full adder with the help of example.   5

   (b) Write the brief notes on floating point representation of numbers.   5

6. (a) Describe the various classes of programming languages in brief.   5

   (b) Describe machine language and assembly language in brief.   5

7. (a) Describe the various types of computer Net works in brief.   5

   (b) Describe the coaxial cables and fiber optical cables and explain how the fiber optical cables are superior to coaxial cables ?   5

8. Write down the importance of computer and computer Net work in banking and railway system.   10

9. (a) Describe multiprogramming in brief and explain how it enhances the performance of computer system ?   6

   (b) Describe the features of the Internet.   4

10. Write short notes on *any two*. Each carries 5 marks.   10

   (a) Batch processing

   (b) VDU

   (c) real time operating system