Bachelor in Information Technology (BIT)

Term-End Examination

December, 2007

CSI-16 : HUMAN COMPUTER INTERFACE

Time : 3 Hours   *Maximum Marks : 75*

Note :   *There are two sections in this paper. Section A is **compulsory**. Attempt any **three** questions from Section B.*

SECTION A

1.   Expand and mention the usage of the following :   5×2=10

   (i)   DHTML

   (ii)   IDE

   (iii)   UML

   (iv)   ASP

   (v)   VR

2.   For each of the following statements, state whether true or false :   5×1=5

   (i)   GUI stands for Graphical User Interface.

   (ii)   Bar-code reader is an output device.

   (iii)   Menus, command buttons, text boxes and labels are the software elements used for designing the GUI.

   (iv)   MacPaint system is a command oriented system.

   (v)   UNIX is a command driven operating system.

3.   (a)   Define Virtual Reality. Explain the various devices related to Virtual Reality.   8

   (b)   Explain the term "cognitive". Why is the study of cognitive important for the development of a good HCI system ?   7

SECTION B

*Answer any **three** questions from this section.*

4. Discuss the role of HCI with suitable example/case study for each :   3×5=15

   (a) Search Engine

   (b) Payment mode for E-Commerce Application

   (c) Enquiry application of any Bank

5. Discuss the following :   3×5=15

   (a) Computer Aided Manufacturing

   (b) Ubiquitous computing

   (c) Embedded computing

6. What should be the significant features for the user interface of a system which supports the hearing impaired ? Explain with the help of an example system.   15

7. (a) Explain how the testing should be carried out for the following user interfaces :   8

     (i) Command driven applications

     (ii) GUI applications

   (b) List any seven future developments in the area of HCI.   7