

**Bachelor in Information Technology (BIT)**

**Term-End Examination**

**December, 2006**

**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 the following :

*5×1=5*

- (i) ASP
- (ii) DHTML
- (iii) GUI
- (iv) WML
- (v) JCL

2. For each of the following statements, state whether true or false :

*10×1=10*

- (i) Ergonomic studies of computers emphasize the relationship to work setting and the effects of stress factors.
- (ii) Storyboard is an abstract representation of the activities that can be performed by users of the imagined system to achieve their purposes.
- (iii) Humans and computers have identical problem solving abilities.
- (iv) Hypercard is a graphically oriented frame based system.
- (v) A system is adaptive if it changes its behaviour by itself.
- (vi) MySQL is used to design the user interface.
- (vii) Speakers, Printer and Head-mounted display are output devices.
- (viii) In VB, form is used as the container for the controls and is meant for user interface.
- (ix) OS/2 Warp has OOUI style of interface.
- (x) E-macs is an example for language-oriented, large combinatoric command set.

3. Consider a batch processing application and list various steps involved in UI design life cycle and explain each step briefly.

15

**SECTION B**

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

4. (a) Explain how the S/W and H/W technological developments have helped the HCI. 8  
(b) List and explain any seven applications of HCI. 7
5. With the help of suitable example/case study for each, explain the following : 5×3=15  
(a) Embedded computation  
(b) Computer mediated communication  
(c) Multimedia in UI design
6. With the help of an example, explain the importance of HCI with context to the hearing impaired. 15
7. (a) Mention the essential features of UI design for electrical appliances like micro ovens and washing machines. 7  
(b) Explain the GUI features with reference to any MS-Office tool like MS-Word, Excel, Powerpoint or Access. 8