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ADIT/BIT PROGRAMME

Term-End Examination

June, 2010

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 and explain their usage : **5x2=10**
 - (a) VRML
 - (b) UML
 - (c) HTML
 - (d) XML
 - (e) DHTML

2. For each of the following statements state whether *True or False* : **5x1=5**
 - (a) Bar code reader is an output device.
 - (b) Graphical user interfaces cannot be designed using VC++ and VB.
 - (c) Flight simulator application comes under real-time application system.

- (d) DOS is a command driven operating system.
- (e) Information visualization focusses on graphical mechanisms designed to show the structure of information and improve the cost structure of access.

3. (a) Define the term "Cognitive". Why is the study of cognitive important for the development of a good human computer interface system ? 7
- (b) What is Virtual Reality (VR) ? List and explain various devices and their purpose of use in VR. 8

SECTION-B

Answer *any three* questions from this section :
(numbered 4 to 7)

4. (a) Discuss the role of HCI with suitable example/case study for each of the following : 3x5=15
- (i) E-mail Account
 - (ii) Transaction (online) application of any Bank
 - (iii) Blogs
5. Discuss the following briefly : 3x5=15
- (a) Future developments of HCI
 - (b) Computer - mediated communication
 - (c) High functionality computer systems.
6. Explain the importance of HCI in context to the Audibly challenged people. Discuss what should be the essential features for HCI systems to be used by them. 15
7. (a) Discuss the classic designs that serve as extended examples for HCI design. 8
- (b) Discuss the role of HCI in mobile application like **iphone**. 7