CS/BCA/SEM-5/BCAE-501B/2011-12

2011
HUMAN COMPUTER INTERACTION

Time Allotted : 3 Hours   *Full Marks* : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

                                           10 × 1 = 10

   i)   Which of the following is not an interaction paradigm ?

        a)   Personal computing   b)   Mobile computing

        c)   Web navigation   d)   Embodied virtuality.

   ii) Which of the following is a method used in Discovery - Interpretation ?

        a)   Storyboarding

        b)   Use cases

        c)   Primary stakeholders profits

        d)   All of these.

iii) Which of the following interaction style is best suited for novice computer users ?

a) Metaphors   b) Form fill-in

c) Command line   d) Zoomable interface.

iv) Which of the following is NOT a computer output device ?

a) Joystick

b) Monitor

c) Head mounted display

d) Speakers.

v) Which of the following is NOT a compurter input device ?

a) Joystick   b) Mouse

c) Keyboard   d) Printer.

vi) Which sense is NOT usually assocaited with Human-Computer Interaction ?

a) Seeing   b) Tasting

c) Hearing   d) Touching.

vii) Which one of these is a good reason for taking care to design a good computer human interface ?

a) Not every user is a computer expert

b) Well designed HCls allow the software to be sold at a better price

c) Well designed HCls use less computer resources

d) Well designed HCls allow the computer to run faster.

viii) Which one of these would NOT be found in a good HCl ?

a) Common short cuts, like CTRL + Z for undo

b) Icons that can have specific meanings

c) A long command line to achieve a function

d) Sounds that convey meanings.

ix) Which one of these is an appropriate measure to reduce the risk of RSI ?

a) Avoid the computer facing a window

b) Using a swivel chair

c) Having an adjustable monitor

d) Taking regular breaks.

x) Which one of these statements about HCl design is correct ?

a) Important features should be printed in blue font because the eye is least sensitive to the blue frequencies

b) Important features should be printed in any other colour than blue font because the eye is most sensitive to the blue frequencies

c) Bright yellow is particularly attention catching because the eye is sensitive to red and green frequencies

d) Any colour will do because the eye is equally sensitive to all frequencies.

GROUP – B
(Short Answer Type Questions)
Answer any *three* of the following. 3 × 5 = 15

2. What are the goals of user interface designer ?

3. Explain the role of usability testing in user interface design.

4. What is task related organization ? Give its importance.

5. Describe steps for individual windown design and also explain window interface actions.

6. What is the importance of searching ? Explain different task actions.

GROUP – C
(Long Answer Type Questions)
Answer any *three* of the following. 3 × 15 = 45

7. Explain Object Action Interface model ?

8. Explain direct manipulation programming.

9. Differentiate paper manuals and displays.

10. What is hypermedia and hypertext differentiate ?

11. What are elastic windows ? Explain personal role management.

12. Explain different types of menus.

13. What is information visualization ? Explain different data types of Type by Task Taxonomy (TTT).

═══════