



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**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 computer input device ?
- a) Joystick                      b) Mouse  
c) Keyboard                    d) Printer.
- vi) Which sense is NOT usually associated 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 HCIs allow the software to be sold at a better price  
c) Well designed HCIs use less computer resources  
d) Well designed HCIs allow the computer to run faster.



- viii) Which one of these would NOT be found in a good HCI ?
- 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 HCI 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.  $3 \times 5 = 15$

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 window 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.  $3 \times 15 = 45$

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 ).

