Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/BCA/SEM-5/BCAE-501B/2012-13
2012
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)   Prototype model is used when

          a)   user requirement is not known

          b)   technical approach is not known

          c)   both (a) and (b)

          d)   none of these.

    ii)   Which one is the video output ?

          a)   Mouse   b)   Scanner

          c)   Printer   d)   Pen drive.

    iii) Which one is the most costly portion in software
          engineering ?

          a)   Planning   b)   Organizing

          c)   Coding   d)   Testing.

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iv) Data warehousing refers to

    a) the secure storage of corporate data in a fireproof vault

    b) the integration of multiple large database into a single repository

    c) a concept that is not longer practical due to the pace of technological change

    d) none of these.

v) Which testing is done by client ?

    a) Unit testing   b) Intermigration testing

    c) Alpha testing   d) Beta testing.

vi) Which of the following is not a factor affecting decision making ?

    a) Technology   b) Information

    c) Competition   d) Software.

vii) For software certification which is needed ?

    a) ISO   b) CMM

    c) both (a) and (b)   d) none of these.

viii) Data structure used to implement heuristic search is

    a) binary tree   b) any tree

    c) both (a) and (b)   d) none of these.

ix) By which colour combination we can make colour display ?

a) Red, Black, White   b) Blue, Green, Yellow

c) Red, Black, Blue   d) Red, Green, Blue.

x) Which one is the costly memory ?

a) RAM   b) HDD

c) Cache memory   d) Register.

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

2. What is visual perception ? Explain with pictorial representation.

3. What is the difference between error and exception ?

4. What is trackball ? Explain.

5. What is simulator ? Why is simulator needed ?
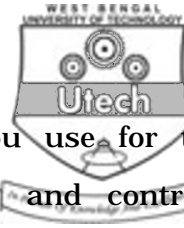
6. Explain the structure of memory.

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

7. a) What is the difference between STM and LTM ?   5

   b) What is the basic architecture of a computer system ?
      10

8. What input and output devices would you use for the following systems ? For each, compare and contrast alternatives and if appropriate, indicate why the conventional keyboard, mouse and CRT screen may be less suitable.

3×5

a) Portable word processor

b) Tourist information system

c) Tractor-mounted crop-spraying controller

d) Air traffic control system

e) Worldwide personal communications system

f) Digital cartographic system.

9. Discuss the ways in which a full-page word processor is or is not a direct manipulation interface for editing a document using Shneiderman's criteria. What features of a modern word processor break the metaphor of composition with pen (or typewriter) and paper ?

10. What is process of design ? Explain with some example.

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