Name :	
Roll No. :	An Annual Of Some and State

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 : $10 \times 1 = 10$
 - 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.

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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. $3 \times 5 = 15$

- 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. $3 \times 15 = 45$

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

3

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

10

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- 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.