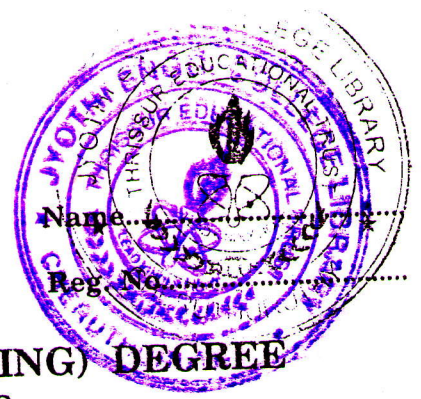


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**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2008**

IT 04 605 – HUMAN COMPUTER INTERACTION

(2004 admissions)

Time : Three Hours

Maximum :100 Marks

Answer all Questions.

- I. (a) Describe the term ergonomics with the help of an example.
(b) What can a system designer do to minimize the memory load of a user?
(c) Discuss the four main phases of interaction design process with the help of a diagram.
(d) Briefly explain QOC design rationale using an example to illustrate.
(e) What do you mean by the term evaluation? What are the three main goals of evaluation?
(f) Briefly explain the open systems task analysis (OSTA).
(g) How effective is the time/space matrix as a tool for classifying and analysing groupware?
(h) Briefly explain the term ubiquitous computing.
(8 × 5 = 40 marks)
- II. (a) Write briefly about the text entry devices, positioning and pointing devices, and display devices.
Or
(b) Discuss the various interaction styles used between a user and the computer.
- III. (a) Explain in detail the importance of usability engineering in software processes. What are the problems related with usability engineering.
Or
(b) Explain in detail the principles to support usability.
- IV. (a) Write short notes on
(i) GOMS ; (ii) CCT ; (iii) BNF ; (iv) TAG.
Or
(b) Write short notes on : (i) Task decomposition ; (ii) knowledge-based analysis.
(iii) Entity-relation-based analysis.
- V. (a) How can we implement synchronous groupware? Explain
Or
(b) Write short notes on : (i) Virtual reality ; (ii) Augmented reality ; (iii) information visualization.
(4 × 15 = 60 marks)