

**COLLEGE OF ENGINEERING, PUNE**  
(An Autonomous Institute of Govt. of Maharashtra)

End-semester-November, 2013

**(DE-09003) Human Computer Interface**

Class: - T.Y. B.Tech (Computer Engineering & Information Technology)

Year: - 2013-14

Semester: - V

Duration: - 3 hr

Max. Marks: - 60

**Instructions:**

1. *All the Questions are compulsory.*
2. *Assume suitable data whenever necessary.*
3. *Draw neat figures wherever required*
4. *Figures to right indicate full marks*

#	Question	Marks
1	What are the advantages and disadvantages of the Keystroke Level Model against Goals, Objects, Methods, and Selection rules (GOMS)	5
2	What is the difference between usability testing and acceptance testing?	5
3	Write three functional requirement and two quality-of-service requirements for the Google search engine.	5
4	Describe the differences between agile development and waterfall development.	5
5	List three direct manipulation interfaces and two command line interfaces.	5
6	Describe the Model-View-Controller pattern.	5
7	Give the time-space matrix for synchronous and asynchronous modes of communications. Give an example of each category.	5
8	How has digital printing changed publishing?	5
9	Explain response time and user think time with the help of a diagram. Show the simple model and the more sophisticated model that accounts for user typing delay and computer display delay.	5
10	List five reasons why manuals are no longer printed.	5
11	List and describe at least three guidelines for error messages.	5
12	List five techniques for coordinating multiple windows.	5