

Total No. of Questions : 10]

SEAT No. :

**P1872**

**[4859]-1062**

[Total No. of Pages : 2

**B.E. (I.T.)**

**b - USABILITY ENGINEERING**  
**(2012 Course) (Elective - I) (Semester - I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.*
- 5) *Assume suitable data, if necessary.*

- Q1)** a) List and explain various attributes of system acceptability. [4]  
b) Good error messages are important part of usability heuristics. Explain with example. [6]

OR

- Q2)** a) Explain the importance of human factors in design. [4]  
b) Explain the stages of the usability engineering lifecycle model. [6]

- Q3)** a) List various issues related to interaction design. Explain with example. [4]  
b) Explain the importance of “Know the user” in usability process. [6]

OR

- Q4)** a) Discuss goals of user interface design. [4]  
b) Why is it important to perform an analysis of the financial impact of the usability on the system. [6]

- Q5)** a) Explain various usability inspection methods with example. [8]  
b) What are various stages of usability testing? List them and explain in detail. [10]

OR

**P.T.O.**

- Q6)** a) What is the concept of focus groups? Explain in detail. [8]  
b) Usability Laboratories is important part of usability testing. Explain with diagram. [10]

- Q7)** a) Explain principles of good user interface design. [8]  
b) Discuss different advantages and disadvantages of paper-based Documentation. [8]

OR

- Q8)** a) What is the concept of internalization & localization related to user interface? Explain with example. [8]  
b) How Interactive tutorials are useful to understand user interface? [8]

- Q9)** a) Explain in detail intelligent user interfaces. [8]  
b) Write a short note on (Any 2): [8]  
i) CAUSE Tools.  
ii) Ubiquitous computing.  
iii) Ethics of Usability.

OR

- Q10)** a) Explain the role of user interface designer & developer. [8]  
b) Write a short note on (Any 2): [8]  
i) Collaborative Systems.  
ii) Organizational role and structure in usability.  
iii) Web analytics.

