[4959] - 1125

B.E. (Information Technology)
b - USABILITY ENGINEERING
(Semester - I) (Elective - I) (2012 Course)

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) *Figures to the right indicate full marks.*
3) *Assume suitable data if necessary.*
4) *Neat diagrams must be drawn wherever necessary.*

Q1) a) List & explain Disciplines contributing to HCI.   **[4]**

b) How we can minimize user memory load in usability process. Explain in detail.   **[6]**

OR

Q2) a) Why we require Short cut keys in user interface.   **[4]**

b) List and explain with example various stages of information design. **[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) User Interface design is an important part of usability. Justify the statement with example.   **[4]**

b) What are various criteria's and attributes of system acceptability?   **[6]**

Q5) a) User feedback technique is an integral part of usability evaluation. Explain. Also list criteria's for user feedback techniques. **[8]**

b) Explain in detail about Focus Group. **[10]**

<div align="center">OR</div>

Q6) a) List various usability inspection methods and explain cognitive walkthrough technique. **[8]**

b) What is the importance of test goals and test plans in usability testing?**[10]**

Q7) a) Explain Categories of ICON **[8]**

b) Explain Guidelines for Internationalization. **[8]**

<div align="center">OR</div>

Q8) a) List out various usability standards and explain any three of it. **[8]**

b) How interactive tutorials are useful to understand user interface? **[8]**

Q9) a) Explain the roles and responsibilities of User & Usability engineer. **[8]**

b) Write a short note on (Any 2) **[8]**

i) GOMS Model

ii) Emergining paradigms of user interaction systems

iii) Web analytics

<div align="center">OR</div>

*Q10)*a) Explain simulation & Virtual reality concept with example. **[8]**

b) Write a short note on (Any 2) **[8]**

i) Emergining paradigms of user collaborative systems.

ii) Usability issues in organization.

iii) Intelligent user interfaces.

<div align="center">ਫ਼ਿ੪ਫ਼ਿ੪</div>