

(REVISED COURSE)

(3 Hours)

[ Total Marks : 100

- N.B. (1) Question No. 1 is **compulsory**, solve any **four** questions from **remaining** questions.  
(2) **All** questions carry **equal** marks.  
(3) Specify your answers with neat **diagrams** and **examples** wherever **necessary**.

1. (a) Explain various human characteristics which are considered while designing the user interface. 10  
(b) How text messages are important to communicate with user, explain with few examples. 10
2. (a) What are general principles of user interface design ? 10  
(b) Design a user interface for Automated Ticket Vending machine for State Road Transport Service, consider all necessary elements in your design. 10
3. (a) Explain screen based and device based control mechanism in detail. 10  
(b) How ordering of screen data necessary in user interface design ? Explain. 10
4. (a) What are various tools in building Graphical user interface ? 10  
(b) Explain different types of windows. 10
5. (a) What is visually pleasing composition for user interface ? 10  
(b) What are general principles in user interface design ? 10
6. (a) Write a brief note on information retrieval for web applications. 10  
(b) What is use, usage and usability of interface system ? 10
7. Write short notes on following :— 20
  - (a) Spech recognition
  - (b) Statistical Graphics
  - (c) Interaction Devices
  - (d) Importance of good design.

Replace

Q. 5(b) - specify User Interface for any two home appliances in detail