

(3 Hours)

N.B.: (1) Question No. 1 is compulsory.

(2) Attempt any four questions from the remaining questions.

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|---|---|--|----|
| 1 | A | Design an user interface for Automated Ticket Vending Machine for state road transport service, consider all necessary elements in your design | 15 |
|   | B | Illustrate the concept of Web systems.   | 5  |
| 2 | A | Differentiate between GUI and WUI.   | 8  |
|   | B | Explain various techniques used for requirement gathering in user interface?   | 7  |
| 3 | A | What are the various distractions which affect the user in screen designs.   | 8  |
|   | B | Explain various graphical types of Menu.   | 7  |
| 4 | A | Explain various visual composition for a screen design.  | 8  |
|   | B | What are the types of Windows? Explain it briefly.   | 7  |
| 5 | A | Explain how to select a proper device controls to user for making selections and entries.  | 8  |
|   | B | Explain Window management for designing an interface?  | 7  |
| 6 | A | What are various forms of guidance and assistance to a user for an effective User Interface?   | 8  |
|   | B | Justify training and documentation are an integral parts of any development effort. Explain in brief.  | 7  |
| 7 |   | Write notes on (Any three)   | 15 |
|   | a | Keyboard Equivalents Vs Keyboard Accelerators  |    |
|   | b | Human Interaction speed  |    |
|   | c | Performance versus Preference  |    |
|   | d | Indirect Manipulation  |    |