

Internal Assessment Test 4 Scheme and solution

Sub:	User Interface Design					Sub Code:	18CS734	Branch:	ISE		
Date:	4/2/2022	Duration:	90 min's	Max Marks:	50	Sem/Sec:	VII A, B & C			OBE	
Answer any FIVE FULL Questions								MARKS	CO	RBT	
1	Explain the Menu bar in detail along with its advantages and disadvantages.						10	CO3	L2		
2	List and explain the functions of menu.						10	CO3	L2		
3	Apply indirect methods for determining the business user requirements with suitable examples.						10	CO2	L3		
4	Explain the important human characteristics in design.						10	CO2	L2		
5	List and explain navigation goals of a well-designed navigational system.						10	CO3	L2		
6	Explain Common usability problems in graphical systems.						10	CO2	L2		

- 1 Explain the Menu bar in detail along with its advantages and disadvantages.
Proper usage: — To identify and provide access to common and frequently used application actions that takes place in a wide variety of different windows.
— A menu bar choice by itself should not initiate an action. The advantages of menu bars are that they:
 - Are always visible, reminding the user of their existence.
 - Are easy to browse through.
 - Are easy to locate consistently on the screen.
 - Usually do not obscure the screen working area.
 - Usually are not obscured by windows and dialog boxes.
 - Allow for use of keyboard equivalents. The disadvantages of menu bars are that:
 - They consume a full row of screen space.
 - They require looking away from the main working area to find.
 - They require moving pointer from the main working area to select.
 - The menu options are smaller than full-size buttons, slowing selection time.
 - Their horizontal orientation is less efficient for scanning.
 - Their horizontal orientation limits number of choices that can be displayed.
- 2 List and explain the functions of menu.

Choice Selection

Keyboard:

If moving the cursor to a menu choice:

- a. The up and down arrow keys should move the cursor up or down vertically oriented menu options.
- b. The left and right cursor keys should move the cursor left or right between horizontally oriented menu options.

- Selection/execution:
- Provide separate actions for selecting and executing menu options.

- Indicate the selected choice through either:
 - Highlighting it with a distinctive display technique.
 - Modifying the shape of the cursor.

3 Apply indirect methods for determining the business user requirements with suitable examples

Problems of Indirect Method
MIS Intermediary
Paper Survey or Questionnaire
Electronic Survey or Questionnaire
Electronic Focus Group

4 Explain the important human characteristics in design.

Perception
Memory
Sensory Storage
Visual Acuity
Foveal and Peripheral Vision
Information Processing
Mental Models
Movement Control
Learning

5 List and explain navigation goals of a well-designed navigational system.

General: — Permit multiple methods for selecting commands. Keyboard equivalents:
— Assign a mnemonic for each command.
— A mnemonic should be as meaningful as possible. Use:

- The first letter of the command, or if duplications exist,
- The first letter of another word in the command, or
- Another significant consonant in the command.

— For standard commands, use mnemonics provided by the tool set. Keyboard accelerators:
— Assign keyboard accelerators for frequently used commands.
— For standard commands, use keyboard accelerators provided by the tool set

6 Explain Common usability problems in graphical systems.

Ambiguous menus and icons.

- Highlighting and selection limitations.
- Unclear Step sequence.
- Complex linkage between and within an application.
- Inadequate feedback and confirmation