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**BTECH**
**(SEM-5) HUMAN COMPUTER INTERFACE 2021-22**

*TIME:3 HOUR*                                                                 *Total Marks: 70*

**Instruction:** Attempt the questions as per the given instructions. Assume missing data suitably.

| SECTION - A | | |
|---|---|---|
| **Attempt *All Parts* in Brief** | | **2*7 = 14** |
| **Q1** | **Questions** | **Marks** |
| (a) | Differentiate between keyboards and keypads. | 2 |
| (b) | How can we achieve usability ? | 2 |
| (c) | Compare and contrast between specificity and generality. | 2 |
| (d) | Explain four pillars of design. | 2 |
| (e) | List the strategies for command organization. | 2 |
| (f) | Explain any two pointing devices in detail. | 2 |
| (g) | Define the term multidimensional data. | 2 |

| SECTION - B | | |
|---|---|---|
| **Attempt *Any Three* of the following** | | **7*3 = 21** |
| **Q2** | **Questions** | **Marks** |
| (a) | Discuss different advanced filtering and search techniques in detail. | 10 |

| (b) | What are the guidelines for alphanumeric displays, spreadsheets and graph ? | 10 |
|-----|------------------------------------------------------------------------------|----|
| (c) | Discuss the social impact statement for early design review. | 10 |
| (d) | What is heuristic evaluation ? Why is it used ? Outline the steps involved for expert review. | 10 |
| (e) | What do you mean by multimedia document ? Discuss various challenges involved in searching a multimedia document. | 10 |

## SECTION - C

**Attempt *Any One* of the following**                                                              **5\*7 = 35**

| Q3 | Questions | Marks |
|-----|-----------|-------|
| (a) | Compare and contrast between the linear menus and tree structured menus with examples. | 07 |
| (b) | Explain various visual techniques required to augment visual pleasing composition of user screen. | 07 |

| Q4 | Questions | Marks |
|-----|-----------|-------|
| (a) | Describe choosing colors for statistical graphical screens. | 07 |
| (b) | What are the advantages and disadvantages of online manuals ? | 07 |

| Q5 | Questions | Marks |
|-----|-----------|-------|
| (a) | Explain three pillars of successful user interface development in detail. | 07 |
| (b) | Explain the six stages of LUCID development methodology. | 07 |

| Q6 | Questions | Marks |
|-----|-----------|-------|
| (a) | Explain about online tutorials, demonstrations and guides. | 07 |
| (b) | Explain the simple stages of action model of system response time and user think time. | 07 |

| Q7 | Questions | Marks |
|-----|-----------|-------|
| (a) | Write short notes on the following:<br>i. Statistical graphics<br>ii. Human interaction speeds | 07 |
| (b) | List few common mistakes of web-based display of information and explain. | 07 |