**[Total No. of Questions : 4] SEAT No. :**

**[Total No. of Pages : 1**

**B.E. (AI & DS) (Insem)**

**Elective IV- UI/UX Design**

**(2019 Pattern) (Semester - II) (417524 (C))**

***Time : 1 Hour] [Max. Marks : 30***

***Instructions to the candidates :***

1. ***Answer Q.1 or Q.2, Q.3 or Q.4***
2. ***Neat diagrams must be drawn wherever necessary.***
3. ***Figures to the right indicate full marks.***
4. ***Assume suitable data if necessary.***

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| --- | --- | --- | --- |
| ***Q1****)* a) | Explain the Human Input and Output channels. How do they impact the user interface design? | | **[5]** |
| b) | Express your opinion - “A design should be User-Centric” | | **[5]** |
| c) | Describe the relationship between UI and UX with suitable examples. | | **[5]** |
| **OR** | | | |
| ***Q2****)* a) | Draw and explain the structure of (ANY ONE) in brief:  1. Human eye 2. Human ear | | **[5]** |
| b) | Compare template-based and content-based approaches in screen design. | | **[5]** |
| c) | Explain the UI design process with suitable stages and examples. | | **[5]** |
| ***Q3)*** a) | Compare and contrast direct manipulation interfaces with command-based interfaces. | | **[5]** |
| b) | What are breadcrumbs, and how do they assist in menu navigation? | | **[5]** |
| c) | Explain the visual design principles and their role in creating a good user interface. | | **[5]** |
| OR | | | |
| ***Q4****)* a) | | Define interaction design. How does it contribute to user engagement? | **[5]** |
| b) | | Explain the 6 stages of UX design and describe the purpose of each stage briefly. | **[5]** |
| c) | | Describe the key characteristics of graphical and web user interfaces. How do they affect user experience? | **[5]** |