

Total No. of Questions : 4]

SEAT No. :

P-5127

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**T.E. (Artificial Intelligence and Data Science) (Insem.)**  
**HUMAN COMPUTER INTERFACE (Elective - I)**  
**(2019 Pattern) (Semester - I) (310245(B))**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Make suitable assumption whenever necessary.*

- Q1)** a) Define Human-Computer Interface. State its Importance. [5]  
b) Explain Good and Bad Interface design with an example. [5]  
c) List and explain the elements of WIMP. [5]

OR

- Q2)** a) What is Ergonomics? Describe the arrangement of controls and displays, the physical environment [5]  
b) Write a short note on text entry devices. [5]  
c) List the various interaction style. Explain any one in details. [5]

- Q3)** a) What is the Miller's law? Give an example. [5]  
b) List the eight Golden rules of interface. Explain any 2 in details. [5]  
c) How does User's Knowledge and Experience help in Human Considerations in the Design of Business Systems. [5]

OR

- Q4)** a) Explain the Information processing and Memory as Human characteristics in design. [5]  
b) Describe with an example, the response of poor design from users. [5]  
c) Explain the stages of "Human action cycle". [5]

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