

paper code: U359-115(T) Civil  
U359-145(T) IT  
U359-135(T) E&TC

U359-125(T) Comp  
U359-155(T) Mech

Total No. of Questions - [4]

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G.R. No.	
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OCT 2019/ INSEM (T1)

T. Y. B. TECH. (Information Technology) (SEMESTER - V)

COURSE NAME: Human Computer Interaction

COURSE CODE: IE31175IT

(PATTERN 2017)

Time: [1 Hour]

[Max. Marks: 30]

(\*) Instructions to candidates:

- 1) Answer Q.1 OR Q.2 and Q.3 OR Q.4.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1) a) List and explain the Norman's Principle of "**Design of Everyday Things**". [6]

b) Explain "**Design Thinking**". List the FIVE phases of Design Thinking. [6]

c) What is HCI? Why HCI study is important? [4]

OR

Q.2) a) How people do things? List the SEVEN stages of action? [6]

b) Define "**Wicked Problem**". List 10 characteristics of wicked problem. [6]

c) Write a short on: Evolution of the web and digital interfaces. [4]

Q.3) a) Suggest ideas for an interface which uses the properties of sound effectively. [6]

b) Explain **Ergonomics** with example. [4]

c) List Universal Design Principles and explain any FOUR of them. [4]

OR

Q.4) a) "Human emotions play an important role in designing a GUI for any application" Elaborate your answer with example. [6]

b) Explain a model of Structure of **Human Memory**. [4]

c) What can a system designer do to minimize the memory load of the user? Explain with example. [4]