

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - V CS&E : WINTER : 2023
SUBJECT : HUMAN MACHINE INTERACTION

Day : Wednesday

Date : 6/12/2023

Time : 02:30 PM-05:30 PM

Max. Marks : 60

W-25590-2023

N.B :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.
- 5) Assume suitable data if necessary.

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- Q.1 Explain the various Qualities of Good User Interface Design. [10]
OR
- Q.1 What is Direct manipulation, explain with example. What are the benefits and problems of direct manipulation? [10]
- Q.2 What are the Benefits of Iterative Design and Prototyping? also differentiate between Traditional design and prototyping and Iterative Design and Prototyping. [10]
OR
- Q.2 Define prototype and explain the various prototyping techniques. Also explain the advantages of prototyping. [10]
- Q.3 Elaborate on what is Statistical graphics and explain its types. [10]
OR
- Q.3 What are the various technological considerations in interface design? [10]
- Q.4 What is Information Architecture and explain the facets of information architecture. [10]
OR
- Q.4 Comment on seven principles of Web 2.0. [10]
- Q.5 Write detailed notes on Hierarchical Task Analysis Methods. [10]
OR
- Q.5 What are the different types of cognitive architectures? explain with example. [10]
- Q.6 What are the features of Interface-Building Tools. [10]
OR
- Q.6 What is Fitts's law and why is it important in HMI? [10]

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