[5926]-62

T.E. (Computer)

HUMAN COMPUTER INTERFACE

(2019 Pattern) (Semester - I) (Elective - I) (310245 B)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
2) *Figures to the right indicate full marks.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Assume suitable data, if necessary.*

Q1) a) List the interaction styles and explain any one in detail. **[6]**

b) Explain the Iterative model and its use in Interface design. **[6]**

c) List and explain the important characteristics of Web User Interface. **[6]**

OR

Q2) a) Explain the Direct Manipulation interaction style with example. **[6]**

b) What is Usability Engineering? Explain Scenario based usability Engineering. **[6]**

c) Explain any three Principles of User Interface of design in detail. **[6]**

Q3) a) List the seven commandments and explain "Soliciting early and ongoing user involvement" in detail. **[6]**

b) List the common Usability problems and explain "Inadequate error messages, help, tutorials and documentation". **[6]**

c) Explain the Cognitive Walkthrough concept with example. **[5]**

OR

Q4) a) Explain GOMS model with an example. **[6]**

b) What are the Heuristic evaluation methods. **[6]**

c) Write a note on "Usability testing in Laboratory". **[5]**

P.T.O.

Q5) a) What is CSCW? Give example. **[6]**

b) In any GUI, what is the role of context-aware interaction? **[6]**

c) Explain the five stage search framework. **[6]**

OR

Q6) a) Write a comparison between Dynamic queries and faceted search in a user interface. **[6]**

b) What is the role of Pattern Recognition in HCI? Explain with example.**[6]**

c) In HCI, what are the important aspects related to Data entry? **[6]**

Q7) a) Explain the basic anatomy of mobile app. **[6]**

b) Explain the comparison between a handheld device user interface and a computer based user interface with example. **[6]**

c) What are the important aspects to be considered when designing help screens in a mobile app? **[5]**

OR

Q8) a) Explain the design principles for user interface in mobile devices. **[6]**

b) Explain the Navigation and Toolbars used in mobile apps. **[6]**

c) Write a short note on "Inter-app Integration and its importance in User Interface". **[5]**

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