



B.Tech IV Year II Semester Supplementary Examinations, June 2022
Human Computer Interaction
COMPUTER SCIENCE AND ENGINEERING

Maximum Marks: 70

Date:18.06.2022 Duration: 3 hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10x2M=20 Marks)

- 1 What is the importance of good design?
- 2 What are the benefits of good design?
- 3 Explain Scatter plots with example.
- 4 Write the guidelines for building metaphors.
- 5 What are the advantages of tiled windows?
- 6 Why direct manipulation of all screen objects and actions may not be feasible?
- 7 Write about the prototyping techniques in interface design.
- 8 What are the features of Galaxy scripting language?
- 9 What are the indirect control pointing devices?
- 10 What are the advantages and limitations of Plotters?

Part-B

Answer All the following questions. (10M X 5=50Marks)

- 11 a) What are the differences between GUI and web user interface? (5M)
b) State various principles considered in the design of Xerox STAR. (5M)
OR
- 12 a) Explain the concept of direct and indirect manipulation. (5M)
b) What are the general principles of user interface design? (5M)
- 13 a) What are the important human characteristics that have an influence on design? (5M)
b) Discuss various types of statistical graphics. (5M)
OR
- 14 a) Explain how the ordering of screen data and content affects the performance. (5M)
b) Write about the qualities of screen elements. (5M)
- 15 a) Write the guidelines for presenting error messages on web. (5M)
b) Explain the content and text arrangement in web pages. (5M)
OR
- 16 a) List out the factors for using icons and explain. (5M)
b) What is the importance of searching? Explain different task actions. (5M)

- 17 a) Explain the characteristics of interface design patterns. (5M)
b) Explain briefly when the prototyping model can be used. (5M)

OR

- 18 a) What are the advantages and disadvantages of Transition diagrams? Explain. (5M)
b) Discuss in detail about Dialog-box Trees. (5M)

- 19 Explain the features of the following keyboard layouts:

a) QWERTY b) DVORAK [5+5]M

OR

- 20 a) List and explain about different types of mouses and their operations. (5M)
b) What are the features of Display devices? Discuss. (5M)