JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, September - 2020
HUMAN COMPUTER INTERACTION
(Information Technology)

Time: 2 Hours   **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1. Discuss the following object relationships with examples.
   a) Collection b) Container   c) Constraint   d) Composite.   [15]

2.a) Compare and contrast the graphical user interface and web user interface.
  b) State the benefits of good design.   [8+7]

3.a) How the screen elements are organized? Explain.
  b) Why is it required to consider human characteristics in the design process?   [7+8]

4.a) Describe the process of determining basic business functions.
  b) Briefly describe different types of statistical graphics.   [7+8]

5.a) Analyze the strengths and weaknesses of cascading menus.
  b) Do colors improve task performance of interactive systems? Explain.   [7+8]

6.a) List the guidelines for selecting the proper device based controls.
  b) What is an icon? Discuss about different types of icons and their characteristics.   [7+8]

7.a) Explain QOC design rational and illustrate the same with an example.
  b) How do 'golden rules' and heuristics help interface designers take account of cognitive psychology? Illustrate your answer with examples.   [7+8]

8.a) Explain the cognitive architecture of ICS (Interacting Cognitive Subsystems)
  b) Discuss the basic tasks that need to be supported for information visualization.   [7+8]

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