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5E1357

B.Tech. V- Semester (Main) Examination, Nov. - 2019
PCC/PEC Computer Sc. And Engg.
5CS5-12 Human-Computer Interaction

Time : 2 Hours

Maximum Marks : 80
Min. Passing Marks : 28

Instructions to Candidates:

Attempt all five questions from Part A, four questions out of six questions from Part B and two questions out of three from Part C. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly). Units of quantities used/calculated must be stated clearly.

PART - A

(Answer should be given up to 25 words only)

All questions are **compulsory** (5×2=10)

1. What is the Human Computer Interaction?

2. What is sensory memory?

3. State the golden rule of Design.

4. Define Multithreading.

5. Discuss the role of Certifying Authority (CA) in HCI.

PART - B

(Analytical/Problem solving questions)

Attempt any **four** questions (4×10=40)

1. How do ergonomics affect the interaction between Man and machine? Explain.

2. What are the characteristics of the GUI? Explain.

3. What is One - way Analysis of ANOVA? Explain with an suitable example.

4. Explain the CMN - GOMS model in terms of HCI.

5. State and Explain Norman's seven principles for transforming Difficult Tasks into simple one's.

6. What is Object oriented programming? Discuss the role of object oriented modelling? in user Interface Design.

PART - C

(Descriptive/Analytical/Problem Solving/Design Question)

Attempt any **two** questions (2×15=30)

1. Explain how can you Implement Shneiderman's eight golden rules to design an efficient Interface.

2. What is Concur Task Tress (CTT)? Explain the use of task models in design cycle.

3. Write short note on :

   a) Finite state machine

   b) Agile methodology.

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