

Total No. of Questions : 8]

SEAT No. :

PE-2599

[Total No. of Pages : 2

[6583]-130

T.E. (Information Technology)

HUMAN COMPUTER INTERACTION

(2019 Pattern) (Semester - V) (314444)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answers Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary

Q1) a) What is KLM (Keystroke Level Model)? Discuss the steps involved in estimating task execution time using KLM. [8]

b) Create a GOMS description of the task of photocopying a. paper from a Journal. Discuss the issue of closure in terms of your GOMS description. [9]

OR

Q2) a) What is a Dialogue? Why do we need separate dialogue notation? Explain with example? [9]

b) Differentiate User Profiles with respect to Interface design with example [8]

Q3) a) What is the definition of usability as per ISO 9241 standard? Describe any four usability goals of Internet Explorer? [9]

b) What is design? What is the golden rule of design? Illustrate the process of Interaction design? [9]

OR

P.T.O.

Q4) a) Write short notes on: [9]

- 1) Learnability
- 2) Flexibility
- 3) Robustness

b) What is User Centric Design? Why design teams involve user throughout the design process Justify your answer with proper example? [9]

Q5) a) List & Explain Nielsen's ten heuristics? [8]

b) Explain user interface management system (UIMS) with its architecture? [9]

OR

Q6) a) What is Usability Testing? Explain why usability testing is important with proper example? [8]

b) Complete the cognitive Walk through example for the video remote control design? [9]

Q7) a) What is Ubiquitous Computing? How Ubiquitous Computing is used in Application Justify with Suitable example? [10]

b) Explain five stages of design thinking process with suitable example? [8]

OR

Q8) a) Differentiate Augmented and Virtual Reality. Also explain both with real life examples. [8]

b) In today's world finding things on the web has become easy Discuss how multimodal interaction has enriched the experience. [10]

