SEAT No. :

P484

[6003]-704

T.E. (Information Technology)
HUMAN COMPUTER INTERACTION INFORMATION TECHNOLOGY
(2019 Pattern) (Semester - I) (314444)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *Answers : Q.1. or Q.2, Q.3 or Q.4,, Q.5 or Q.6, Q.7 or Q.8.*
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 are User Profiles explain with example? **[8]**

b) Hierarchical task analysis (HTA) is used to describe the interactions between a user & software system. Draw & explain HTA to online bus reservation system? **[9]**

OR

Q2) a) Explain Norman's 7 stage model with example. **[8]**

b) Differentiate between Goals Vs Tasks. How does GOMS help in improving usability? Draw GOMS for CLOSE-WINDOW. **[9]**

Q3) a) Explain the principle of learnability and principle of flexibility with example. **[9]**

b) i) Draw and explain Software design process. **[9]**

ii) Explain the importance of User Focus from HCl perspective.

OR

Q4) a) What is Prototyping? Explain the low-fidelity and High-fidelity designs with example. **[9]**

b) Consider any online food ordering system, draw model-view-controller (MVC) framework. Mention the necessary technology solutions available for each of MVC. **[9]**

Q5) a) Explain DECIDE framework with necessary diagram and an example of the same. **[8]**

b) What are the goals of evaluation? Explain Cognitive walkthrough and heuristics evaluation technique in detail. **[9]**

OR

Q6) a) Explain user interface management system (UIMS) in detail along with its architecture? **[8]**

b) Write a short note on. **[9]**

   i) Toolkits

   ii) Usability testing

Q7) a) Explain **[9]**

   i) Augmented Reality

   ii) Virtual Reality along with real life examples of both.

b) Discuss in the detail the Challenges faced by designer while designing interfaces for **[9]**

   i) smart homes

   ii) smart devices

OR

Q8) a) Draw and explain Design thinking in detail for any suitable application.**[9]**

b) In today's world finding things on the web has become easy. Discuss how multimodal interaction has enriched the experience. **[9]**

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