

Total No. of Questions : 8]

SEAT No. :

PD4325

[Total No. of Pages : 2

[6403]-123

T.E. (Information Technology)
HUMAN COMPUTER INTERACTION
(2019 Pattern) (Semester - V) (314444)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat circuit diagrams should must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) Categorize user profiles for any mobile phone-based money transfer application. (Hint:- Google pay/ PhonePe/ BHIM, etc.) [7]

b) Goals are accomplished by methods consisting of operators which are identified by selection rules. illustrate this for following goals. [10]

- i) To delete a sentence in a graphical text editor
- ii) To close window in a graphical text editor

OR

Q2) a) 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? [7]

b) Consider designing a user interface for “on-line movie ticket booking” or “hospital admission system”. Perform a detailed task analysis. Identify task domain object & actions. Relate task domain & actions with interface objects & actions [10]

Q3) a) A scenario is not only an idealized but also a detailed description of a specific instance of HCI. Scenarios specify how users carry out their tasks in a specified context. Write scenarios for booking an airline ticket from any online application. [9]

Note: Generate scenarios to cover a wide range of situations. Include problem situations that will test the system concept.

b) Draw and explain Software design process from HCI perspective. [9]

OR

P.T.O.

- Q4)** a) Specify an example for low-fidelity, medium-fidelity, and High-fidelity prototype for any “Exam registration portal”. [9]
b) Consider any “Online grocery 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. [9]
b) Explain user interface management system (UIMS) with its architecture? [9]

OR

- Q6)** a) What is Usability testing? How will you perform Usability testing on an interactive interface which deals into “Hotel booking” [9]
b) Write a short note on-
i) Heuristic Evaluation
ii) Cognitive walk through

- Q7)** a) Explain the following along with real life examples of both. [10]

- i) Augmented Reality
ii) Virtual Reality

- b) Discuss in the detail the Challenges faced by designer while designing interfaces for.
i) Smart TV
ii) Smart wrist bands

OR

- Q8)** a) Draw and explain Design thinking in detail for any suitable application. [10]
b) In today’s world finding things on web has become very easy. Discuss how multimodal interaction has enriched the experience. Discussion on Input and output through speech, audio, image is expected with relevance to website / products. [7]

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