

SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

PA-1612

[Total No. of Pages : 2

[5926]-246

T.E. (Artificial Intelligence and Data Science)

HUMAN COMPUTER INTERFACE

(2019 Pattern) (Semester-I) (Elective-I) (310245B)

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) *Figures to the right side indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Make suitable assumption whenever necessary.*

- Q1)** a) List the interaction styles and explain command line interfaces in detail. [6]
b) Explain the Direct Manipulation interaction style with example [6]
c) How does Menu selection interaction style impact on better user interface/Explain with example. [6]

OR

- Q2)** a) Explain any three Principles of User interface of design in detail. [6]
b) What are the important aspects of Graphics to be considered in any web page interface designs? [6]
c) Explain Usability Engineering in detail. [6]

- Q3)** a) Explain GOMS model with an example. [6]
b) Compare and explain the Formative and Summative Evaluation methods. [6]
c) Explain the Heuristic Evaluation concept with example. [5]

OR

- Q4)** a) Write a note on “Model based analysis”. [6]
b) Write a note on DECIDE framework. [6]
c) Write a note on “Usability testing in Laboratory”. [5]

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- Q5)** a) Write a note on “Sensor based and context aware Interaction” in HCI.[6]
b) What are the important factors in Data Retrieval in HCI? Give example.[6]
c) Explain the five stage search framework. [6]

OR

- Q6)** a) What is Hypertext? Explain with example. [6]
b) What is the role of Pattern Recognition in HCI? Explain with example.[6]
c) Write a note on “Machine learning and its importance in HCI”. [6]

- Q7)** a) Explain the basic anatomy of mobile app. [6]
b) Explain the comparison between a handheld device user interface and a computer based user interface with example. [6]
c) What are the important aspects to be considered when designing help screens in a mobile app? [5]

OR

- Q8)** a) Explain the interface constraints of Mobile apps. [6]
b) Explain the Navigation and Toolbars used in mobile apps. [6]
c) Write a short note on “Sorting and Filtering” in mobile apps. [5]

