

SPPU-TE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

P810

[5870] - 1130

[Total No. of Pages : 2

T.E. (Computer Engineering)

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 wherever necessary.*

- Q1)** a) Explain interaction styles:
- i) Command - line and
 - ii) Menu Selection [6]
- b) Which are the characteristics of Graphical User Interface? Explain. [6]
- c) Write down about software life cycle importance in HCI. [6]

OR

- Q2)** a) Explain interaction styles:
- i) Form fill - in and
 - ii) Direct Manipulation [6]
- b) Which are the characteristics of Web User Interface? Explain. [6]
- c) Write down about Iterative design and Prototyping in detail. [6]

- Q3)** a) Describe Usability Assessment and common usability problems with example. [6]
- b) Write short note on :
- i) Formative evaluation
 - ii) Summative Evaluation. [6]
- c) Elaborate Heuristic Evaluation with example. [5]

OR

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- Q4)** a) Describe Practical and objective measures of Usability in detail. [6]
b) Write short note on :
i) Universal Design
ii) Multi-modal Interaction [6]
c) Elaborate Cognitive Walkthrough. [5]
- Q5)** a) List down paradigms used for Interaction in HCI. Explain any five Paradigms. [6]
b) Explain ubiquitous computing in detail. [6]
c) Explain role of Machine learning in HCI with example. [6]

OR

- Q6)** a) What is mean by framework in HCI? Explain Five - Stage search framework. [6]
b) Explain dynamic queries and faceted search used in HCI. [6]
c) Explain pattern recognition process with suitable example. [6]
- Q7)** a) Describe Mobile form factors using suitable mobile app developed using HCI. [6]
b) Discuss Navigation and toolbars in detail. [6]
c) Write down about designing for automotive interfaces in HCI. [5]

OR

- Q8)** a) Describe Tablet format app using suitable mobile app developed using HCI. [6]
b) Discuss Tap - to reveal and direct manipulation in detail. [6]
c) Write down about designing for audible interfaces in HCI. [5]

