Total No. of Questions	:	8]
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PA-1612

SEAT No.:			_
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[5926]-246

T.E. (Artificial Intelligence and Data Science) HUMAN COMPUTER INTERFACE

(2019 Pattern) (Semester-I) (Elective-I) (310245B) Time: 2½ Hours l [Max. Marks: 70 Instructions to the condidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. Figures to the right side indicate full marks. 2) 3) Neat diagrams must be drawn wherever necessary. 4) Make suitable assumption whenever necessary. List the interaction styles and explain command line interfaces in detail.[6] *Q1*) a) Explain the Direct Manipulation interaction style with example b) [6] How does Menu selection interaction style impact on better user interface/Explain with example. [6] Explain any three Principles of User interface of design in detail. **Q2**) a) [6] What are the important aspects of Graphics to be considered in any web b) page interface designs? Explain Usability Engineering in detail. c) Explain GOMS model with an example. **[6]** Q3) a) Compare and explain the Formative and Summative Evaluation methods. [6] b) Explain the Heuristic Evaluation concept with example [5] c) OR Write a note on "Model based analysis *Q4*) a) [6] Write a note on DECIDE framwork. b) [6] Write a note on "Usability testing in Laboratory". [5] c)

P.T.O.

<i>Q5</i>)	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 an computer based user interface with example.	id a [6]
	c) §	What are the important aspects to be considered when designing h	elp
	•	screens in a mobile app?	[5]
		OR O	
Q8)	a)	Explain the interface constraints of Mobile apps.	[6]
	b)	Explain the Navigation and Toolbars used in mobile apps.	[6]
	c)	Explain the Navigation and Toolbars used in mobile apps. Write a short note on "Sorting and Filtering" in mobile apps.	[5]
		write a short note on Sorting and Pittering in moone apps.	5
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