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Question Paper Code : 40374

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2021.

Seventh Semester

Computer Science and Engineering

CS 8079 – HUMAN COMPUTER INTERACTION

(Common to: Computer and Communication Engineering/Information Technology)

(Regulations 2017)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Define Ergonomics?

2.   What are I/O channels? What is use of its?

3.   How iteration and prototyping is useful in arriving at a better design.

4.   Define Usability of a product.

5.   List out few socio-organizational issues in designing cognitive models.

6.   Who are called as Stakeholder? Write their significance.

7.   What is framework with respect to Mobile Ecosystem?

8.   Give some of the tools available for mobile design.

9.   What is an overlay?

10. What do you mean by Landing Pages in websites creation?

PART B — (5 × 13 = 65 marks)

11. (a)   The goals of Human Computer Interaction is to produce usable and safe systems.List down the goals and elaborate them.

Or

    (b)   (i)   Elaborate on the framework of human computer interaction.   (7)

          (ii) List down the features of direct manipulation interfaces. Explain.(6)

12. (a) Explain ONE software process life cycle model that play major role in the Human Computer interaction?

Or

(b) (i) What are the Design Rules? (2)

(ii) Why it is required in a software process? (3)

(iii) Explain the standards available in design process. (8)

13. (a) Explain Multimedia. What is Multimedia Software's required to create Multimedia Application and give One Example Application?

Or

(b) What do you mean by Communication and Collaboration Models in Human Computer Interaction? Elaborate.

14. (a) What are the types of Mobile Applications used to for collaboration in a social and Organizational Structure? Elaborate on them.

Or

(b) Explain about the elements used in Mobile Design?

15. (a) What do you mean by Contextual Tools? In what way it helps in desgning of Web Interfaces? Explain.

Or

(b) Explain the Process Flow in Designing a web interface with one example?

PART C — (1 × 15 = 15 marks)

16. (a) What are the limitations and capabilities of Cognitive models that helps to solve the Social Organization Problems? Elaborate with an example.

Or

(b) List out all the Standards, Principles and rules in designing software process for the hospital billing system based on the HL7 and Hippo guidelines? Explain.

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