Reg. No. :

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 — $(10 \times 2 = 20 \text{ marks})$

- 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 —
$$(5 \times 13 = 65 \text{ marks})$$

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?

 \mathbf{Or}

(3)
(8)

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

 \mathbf{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 — $(1 \times 15 = 15 \text{ marks})$
- 16. (a) What are the limitations and capabilities of Cognitive models that helps to solve the Social Organization Problems? Elaborate with an example.

 \mathbf{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.