A   Reg. No. : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Question Paper Code: 99C22

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Elective

Computer Science and Business Systems

19UCB922-INTRODUCTION TO HUMAN COMPUTER INTERACTION

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. HCI Stands for _____.   CO1- U

   (a) Human Computer Interaction   (b) Human Computer Impulses

   (c) Human machine studies   (d) none of the above

2. _____ is a term used to describe any data related to or containing   CO1- U
   information about a specific location on the Earth's surface.

   (a) Spatial data   (b) non geospatial data   (c) non spatial data   (d) none of the above

3. What is the first step in the software development lifecycle?   CO1-U

   (a) System Design   (b) Coding

   (c) System Testing   (d) Preliminary Investigation and Analysis

4. _____ is a model that describes "how to do" according to a certain   CO1-U
   software process system

   (a) prescriptive process model   (b) Waterfall Model

   (c) Evolutionary Process Model   d) RAD Model

5. List out of the components of multimedia   CO1- U

   (a) text   (b) audio   (c) animation   (d) All of the above

6. Which of the following is not a element of GOMS Model   CO1-U

   (a) a set of goals, a set of non-operators,

   (b) a set of methods for achieving the goals

   (c) a set of selection rules for choosing among competing methods.

   (d) All of the above

7. List out the layers of mobile eco system   CO1-U

   (a) aggregators   (b) operating system   (c) networks   (d) all of them

8. Which of the following applications of mobile?   CO1-U

   (a) SMS   (b) mobile websites   (c) mobile web widgets   (d) all of them

9. List out the selection patterns   CO1-U

   (a) toggle, collected, object, Hybrid   (b) toggle, collected, Hybrid

   (c) toggle, collected, object   (d) none of them

10. Which one is interrupt and multiway process.light weighted   CO1-U

    (a) inlays   (b) overlays   (c) menu   (d) virtual pages

PART – B (5 x 2= 10 Marks)

11. Define touch?   CO1- U
12. Mention the parts of usability specification for VCR.   CO1-U
13. Differentiate Linear text vs. hypertext   CO1-U
14. Develop the layers of mobile ecosystem.   CO1-U
15. Differentiate Dragged object versus drop target.   CO1-U

PART – C (5 x 16= 80 Marks)

16. (a) Explain in detail about memory unit of computer.   CO1-U   (16)

                                    Or

    (b) Explain in detail about the output devices and functions with   CO1-U   (16)
        At least 5 example

17. (a) Consider the following usability objective. Theatre booking   CO2 -App   (16)
        clerks With low motivation, no computing experience and no
        previous Training, working in a small and hectic box office, are
        able to learn to reserve or book seats within a one hour period.
        Demonstrate what Measures could be taken and which
        techniques would you consider appropriate to test Whether this
        objective was met?

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(b) Consider the following usability objective. Train e- booking Passenger will book online reservation or takkal ticket. He will use system in any computer center or home .he has no computing experience, are able to learn to reserve or book tickets within a one hour period. Demonstrate what Measures could be taken and which techniques would you consider appropriate to test Whether this objective was met?   CO2 -App   (16)

18. (a) One of the assumptions underlying the programmable user model approach is that it is possible to provide an algorithm to describe the user's behavior in interacting with a system. Taking this position to the extreme, choose some common task with a familiar interactive system (for example, creating a column of numbers in a spreadsheet and calculating their sum, or any other task you can think of) and describe the algorithm needed by the user to accomplish this task. Write the description in pseudo code. Does this exercise suggest any improvements in the system?   CO2- App   (16)

Or

(b) A group of universities has decided to collaborate to produce an information system to help potential students find appropriate courses. The system will be distributed free to schools and careers offices on CD- ROM and will provide information about course contents and requirements, university and local facilities, fees and admissions procedures. Identify the main stakeholders for this system, categorize them and describe them and their activities, currently and with regard to the proposed system, using the CUSTOM framework   CO2- App   (16)

19. (a) Compare the Mobile web applications and Native applications with suitable case studies.   CO1 -U   (16)

Or

(b) Give an example mobile information architecture that was designed with desktop users in mind rather than mobile users. Summarize the pros and cons of the Architecture   CO1-U   (16)

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20. (a) Design a web interface for a 'Library Management System'. CO1- U (16)
State the functional requirements you are considering.

Or

(b) Design the technique that is used to reveal customization CO1 -U (16)
controls of webpage. Discuss that technique with diagrammatic
illustration.

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