Register No.: …………………………. Name: …………………………………………………………

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIFTH SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (S), FEBRUARY 2023
(2020 SCHEME)

Course Code: **20IMCAT303**

Course Name: **User Interface Design**

Max. Marks: **60**   **Duration: 3 Hours**

PART A
(Answer all questions. Each question carries 3 marks)

1. Explain the usability of interactive systems.
2. What are the goals of requirement analysis?
3. Explain 3D-Interface.
4. What is teleoperation?
5. How PHP can be embedded in HTML? Give an example.
6. Explain ternary operator with an example.
7. How terminating loops are used in PHP conditional statements?
8. Explain the method of passing arrays to functions with an example.
9. How cookies can be set in user's machine using PHP?
10. What are the steps for accessing a database in PHP?

PART B
(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. With a suitable diagram, explain the four pillars of design.   (6)

OR

12. Explain different stages of software development methodology.   (6)

MODULE II

13. Write short note on direct manipulation system. Give any two examples.   (6)

OR

14. Differentiate virtual and augmented reality concepts.   (6)

MODULE III

15. With examples, explain internal data types in PHP.   (6)

OR

16. Write short note on arithmetic and logical operators in PHP with examples.   (6)

MODULE IV

17.   a)   Explain any two built-in functions in PHP.   (2)
      b)   Differentiate array_udiff_assoc and array_udiff_uassoc.   (4)

OR

18.   a)   Differentiate implode and explode functions in PHP.   (4)
      b)   Explain any two array-handling operators in PHP.   (2)

MODULE V

19. Write a PHP program for storing, retrieving, and destroying a session.   (6)

OR

20. Write down a complete PHP program for creating a new database, creating a table, inserting three records and displaying the data from the table.   (6)

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