

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

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**FIFTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION (S), FEBRUARY 2024  
(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. What are the features of high-quality interfaces?
2. Explain the usability measures in detail.
3. Write short note on teleoperation.
4. What are the uses of virtual environments? Explain.
5. Explain any two types of comments used in PHP.
6. How do you create constants in PHP?
7. How do you perform conversion between string and array?
8. Differentiate *for* loop and *foreach* loop with a sample code.
9. How do you read data in web pages using GET method and POST method?
10. What is session? How do you store data in a session?

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

11. Explain the goals of requirements analysis. (6)

**OR**

12. Elaborate on the four pillars of design. (6)

**MODULE II**

13. Explain the elements of form-fill-in design. (6)

**OR**

14. Explain the different types of menus with a diagram. Write down the process of menu selection. (6)

**MODULE III**

15. List out the different internal data types in PHP. Explain it with sample code. (6)

**OR**

16. Explain the operators in PHP with suitable examples. (6)

**MODULE IV**

17. Describe the different conditional statements in PHP with a sample code. (6)

**OR**

18. a) How does an array can be passed to a function? Justify the answer with a sample program. (3)  
b) Write a program to implement the usage of passing by reference. (3)

**MODULE V**

19. a) What do you mean by a cookie? How can you set the expiry date of a cookie? (3)  
b) Write a program to retrieve data from a session variable. (3)

**OR**

20. Explain the process to handle password controls, hidden controls and file uploads in PHP with a sample code. (6)

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