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

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FOURTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION (S), AUGUST 2023
(2020 SCHEME)

Course Code: 20IMCAT210

Course Name: **Internet Concepts and Web Technology**

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

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

1. What are network protocols? Mention a protocol and its use.
2. Write a short note on domain namespace.
3. What is uniform resource locator (URL)? What are its sections?
4. What is a web page? Differentiate static and dynamic web pages.
5. Distinguish between block-level and in-line elements in HTML with an example.
6. With an example, mention the role of *type* and *start* attributes in HTML lists.
7. Discuss any three advantages of using CSS in a web page.
8. What is the format of CSS style rule? Define a style rule to change the foreground color and font style of a paragraph and heading to *Yellow* and *Arial* respectively.
9. *"Within the body of a JavaScript function, a local variable takes precedence over a global variable with the same name."* Justify the statement with an example.
10. Explain how one-dimensional arrays are created in JavaScript? Give an example.

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

MODULE I

11. With a neat diagram, explain TCP/IP protocol suite.   (6)

OR

12. What is a computer network? Explain the categories of networks.   (6)

MODULE II

13. Explain HTTP protocol in detail.   (6)

OR

14. a) Explain how e-mails are sent and received over the internet.   (3)
    b) Write note on the following protocols:
       1. SMTP
       2. POP3   (3)
       3. IMAP.

MODULE III

15. Explain how graphics are used in HTML.   (6)

OR

16. Design an HTML form as given below:

    (6)

MODULE IV

17. Explain about CSS selectors. Give examples.   (6)

OR

18. With appropriate diagram and associated properties, discuss CSS box model.   (6)

MODULE V

19. a) Explain how events are handled in JavaScript.   (3)
    b) Write a JavaScript program to find whether a number is odd or even. Use a text field to accept the number. Use a button to display the result in an alert box.   (3)

OR

20. a) How regular expressions are created in JavaScript?   (3)
    b) Create a regular expression to validate e-mail address.   (3)

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