2023
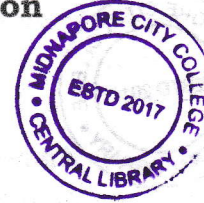
BCA 3rd Semester (CBCS) Examination

PAPER — SEC-1.1T/1.2T/1.3T

Full Marks : 25

Time : 2 hours

The figures in the right-hand margin indicate marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Illustrate the answers wherever necessary.

Answer from *any* **one** Part as directed.

PART—I

(SEC-1.1T)

(Web Designing)

SECTION—A

Answer *any* **three** questions :   2×3=6

1. Discuss the importance of HTTPS in web security.

2. What are hyperlinks?

/843   (*Turn Over*)

(2)

3. What is Cascading Style Sheet (CSS)?

4. What are different data types present in JavaScript?

5. Define client IP address.

SECTION—B

6. Answer any **two** questions : 5×2=10

7. Explain client-server model. Explain the key characteristics of the client-server architecture. 2+3=5

8. How to create the form object? Design a login form whose specialty is the presence of password field. Write HTML code where the password field will show the star to hide the characters. 2+3=5

Write short notes on the following : 5

   (a) URL

   (b) FTP

   (c) World Wide Web (WWW)

   (d) JavaScript Object Notation (JSON)

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(5)

10. (a) What is XML style sheet?

   (b) How do you add a style to an XML file?

   (c) Why do we use a CSS style sheet for an XML document? 2+4+3=9

PART—III

(JavaScript with Node.js / Angular JS)
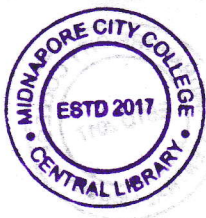
(SEC-1.3T)

SECTION—A

Answer any **three** questions : 2×3=6

1. What is BOM?

2. What are the advantages of JavaScript?

3. What do you mean by Angular JS?

4. Define $scope.

5. What is a template in Angular JS?

6. What do you understand by the term fork in Node.js?

SECTION—B

Answer *any* **two** questions :   5×2=10

7. Briefly explain the use of window object.

8. What are the features of Angular JS?

9. Explain Node.js web application architecture.

SECTION—C

Answer *any* **one** question :   9×1=9

10. What are the differences between JavaScript and Node.js? What are the directives used in Angular JS?   5+4=9

11. How to validate email in JavaScript? What are the pop-up boxes available in JavaScript? What are the disadvantages of Angular JS?

                3+3+3=9

★ ★ ★

SECTION—C

Answer *any* **one** question :   9×1=9

9. What is DHTML? How does CSS play a role in enhancing the styling of dynamic elements in DHTML? Explain the concept of Document Object Model (DOM) manipulation in the context of DHTML.   2+3+4=9

10. Define the term 'Internet'. Explain the role of TCP/IP (Transmission Control Protocol/Internet Protocol) in facilitating communication over the Internet. Name two popular web browsers and discuss their features. How do web browsers facilitate interaction with the World Wide Web?   2+3+2+2=9

PART—II

(SEC-1.2T)

(XML Programming)
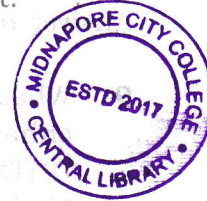
SECTION—A

Answer *any* **three** questions :   2×3=6

1. Define XML parser.

2. What is a XML schema?

3. Explain four important XML tags with the help of an example.

4. What is XML DOM document? Describe one advantage of the XML DOM document.

5. Why is XML data binding used?

SECTION—B

Answer *any* **two** questions :   5×2=10

6. What is XML? List the rules to be followed by an XML document.   2+3=5

7. How can you integrate XML with database?   5

8. What is Markup Language? What is the difference between XML and HTML?   2+3=5

SECTION—C

Answer *any* **one** question :   9×1=9

9. (a) What is XSL?

   (b) Why is XSLT important for XML?

   (c) Explain three important parts of XSL i.e. XSLT, XPath, XSLFO.   1+2+6=9