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**Question Paper Code : 90327**

B.E./B.Tech: DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019  
Fifth Semester  
Information Technology  
IT8501 – WEB TECHNOLOGY  
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. State the purpose of http protocol.
2. What is the difference between HTML and XHTML ?
3. Mention the advantages of using cascading style sheets.
4. Write a JavaScript that searches a word in sentence and returns the index of the word.
5. Write a program using DOM even handling to change the style of the HTML element with id = "id1", when the user clicks a button.
6. Write a Servlet code segment to print name and value of all the cookies within a webpage.
7. What are the types of directives in JSP ?
8. How is XML parsing done with SAX ?
9. How can you find out that an AJAX request has been completed ?
10. What are the steps performed by the client to access a web service ?

PART – B

(5×13=65 Marks)

11. a) Write in detail about the working of Hyper Text Transfer Protocol (HTTP).  
(OR)  
b) Explain the different types of lists used in HTML with an example for each.



12. a) i) Create a HTML which uses CSS to control the display of text using uppercase, lowercase and capitalize using .class selector. (7)
- ii) Create a HTML which uses CSS to display a paragraph element that has a 2px black border and a green outline with a width of 10px. (6)

(OR)

- b) i) Write a JavaScript program to remove duplicate items from an array ignoring case sensitivity. (7)
- ii) Write a JavaScript function to convert an Array object into a list of 'key, value' pair. (6)
13. a) i) Write a program using DOM to Access HTML element using document.getElementsByTagName() property. (7)
- ii) Write a program using DOM even handling which changes the colour of a Text using mouseover and mouseout events. (6)

(OR)

- b) Write an application to auto refresh a page in Servlet.

14. a) Illustrate the use of MVC architecture in JSP with an example.

(OR)

- b) Write an example to show how an XML document is parsed into an XML DOM object.

15. a) Explain the use of XMLHttpRequest in AJAX with an example.

(OR)

- b) What is SOAP ? Explain the SOAP message format.

PART - C

(1×15=15 Marks)

16. a) Create a registration form using HTML with the fields : FullName, UserName, Email, State, Address and ZipCode. Write javascript code to perform the following validation for the form :

- Check for Empty Field: Has the user left required field empty. If field is empty return alert message.
- Check for Numbers: User entered number in the Contact field.
- Check for Alphabets: Has the user entered characters in alphabets in name field.

- Check for Numbers and Letters: If a text input is all alphanumeric characters (numbers and letters) in the message field.
- Check for Characters: Has the user entered correct length for the username field.
- Select for Drop Down List Item: If a selection has been made from HTML select input (the drop down selector).
- Email Validation: has the user entered valid email address.

(OR)

- b) Create a JSP application to insert and then retrieve the following employee details of a company from the database and display :

- 1) Employee ID
- 2) First Name
- 3) Last Name
- 4) Age.