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Question Paper Code : 40774

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Fifth Semester

Information Technology

IT 8501 — WEB TECHNOLOGY

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why HTTP is called as stateless protocol.
2. State the functions of a Web Server.
3. Write a code to add an image in HTML web page and mention the attributes.
4. Justify the need for client side scripting.
5. List the life cycle methods of Servlet.
6. Mention the Document Object Model.
7. Why do we need namespace in XML?
8. Illustrate the features of JSP.
9. What is the concept behind JAX-RPC technology?
10. What are the advantages and disadvantages of AJAX?

PART B — (5 × 13 = 65 marks)

11. (a) (i) How to design an effective interactive page using HTML? (8)
(ii) Describe each attribute of <form> tag. (5)

Or

- (b) Design a Web Page with following HTML tags
- (i) Style (2)
 - (ii) Li, 01 (2)
 - (iii) <α> (2)
 - (iv) <embed> (3)
 - (v) <table> (4)
12. (a) Discuss the text properties of CSS with suitable example. (13)
- Or
- (b) Write Java Script function to perform basic arithmetic operations of two numbers. (13)
13. (a) Explain DOM based XML processing with suitable illustration. (13)
- Or
- (b) Write a Servlet program for accessing and displaying all the records from the database. (13)
14. (a) (i) Explain model view controller paradigm with an example. (7)
- (ii) Discuss (1) XSL (2) SAX. (6)
- Or
- (b) (i) Discuss with an example how a JSP handles HTTP GET requests.(8)
- (ii) What are the advantages of JSP over SERVLETS? (5)
15. (a) (i) Discuss AJAX architecture and compare it with DOM and SAX. (8)
- (ii) Discuss about CALL-BACK Methods. (5)
- Or
- (b) (i) What are the elements of a SOAP message? (5)
- (ii) Enlist the operation types response used in WSDL? With example. (8)

PART C — (1 × 15 = 15 marks)

16. (a) Write an application to create a XML document from a university employee database. The XML document should contain the following: Write DTD and schema for this data.
- (i) Employee code,
 - (ii) Employee Name,
 - (iii) Designation,
 - (iv) Address,
 - (v) Department.

Or

- (b) Create your own auction servlet. Create a database of several items that are being auctioned. Make a web page that allows users to select an item on which to place the bid. When users place the bid they should be notified if the bid is lower than the previous bid.

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