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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, January/February - 2023
WEB PROGRAMMING
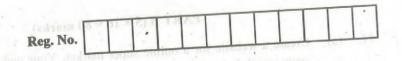**(Common to CESE, CSE(AIML), CSE(DS))**

Time: 3 Hours   **Max. Marks: 75**

Note: i) Question paper consists of Part A, Part B.
     ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
     iii) In Part B, Answer any one question from each unit. Each question carries 10 marks
        and may have a, b as sub questions.

PART – A

(25 Marks)

1.a)	Define Heading Tags in HTML with an example.	[2]
b)	What is the scope of the variables in JavaScript?	[3]
c)	List string manipulation functions of Java String class.	[2]
d)	What is a package? How to define it and access it?	[3]
e)	Define TCP sockets.	[2]
f)	Discuss about Inetaddress class.	[3]
g)	Define event handling.	[2]
h)	Write short note on cookies.	[3]
i)	Define UDDI.	[2]
j)	Write down the applications of XML.	[3]

PART – B

(50 Marks)

2.a) Explain the structure of the HTML webpage with an example.
  b) Explain various operators and data types available in java script with examples. [5+5]

OR

3.a) 'Javascript is referred to as Object based programming language'. Justify with an example.
  b) Explain how basic tables and nested tables are created using HTML. [5+5]

4.a) Does Java support multi way selection statement? Justify your answer.
  b) Can inheritance be applied between interfaces? Justify your answer. [5+5]

OR

5. What is an exception? How are exceptions handled in Java programming? Explain with suitable program. [10]

6.a) Write a JDBC program to update the amount balance in an account after every withdrawal. Assume the necessary database table.
  b) Discuss about parameter passing in RMI, with examples. [5+5]

OR

7. Explain the following methods bind(), rebind(), createSubcontext(), getAttributes(), modifyAttributes() methods with syntax. [10]

8.a) What is the role of servlet in web application? What are the differences between HttpServlet and GenericServlet?

  b) Present and explain the life cycle of a servlet. [5+5]

OR

9. What is a Layout manager? Discuss different types of layout managers used in JAVA in brief. [10]

10.a) How is XML defined? Write down the XML syntax and structure rules. What is DTD? Discuss its applications.

  b) Discuss the role of WSDL web service in AJAX. [5+5]

OR

11. Design an XML schema for hospital information management. [10]

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Question Paper Code : 57491

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Fifth Semester

Information Technology

IT – 6503 WEB PROGRAMMING

(Regulations 2013)

Time : Three Hours   **Maximum : 100 Marks**

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1.   Differentiate client side and server side scripting.

2.   What do you mean by a canvas in HTML 5 ?.

3.   Write the syntax for declaring a two dimensional array in Java.

4.   Define abstract classes in Java.

5.   What is a Java Bean ?

6.   Mention the purpose of using InletAddress class.

7.   List ant=y four layout managers supported in Java.

8.   Compare JSP and serve let.

9.   What is UDDI ?

10.   Give the rules for well formed documents in XML.

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PART B (5 × 16 = 80 marks)

11. (a) Create a website for a online super market. Your website should have a home page which helps the users to navigate to various other pages. Every web page in the website give a detailed description of different items present in the super market. Make the website user friendly by adding relevant images and other formatting options. The last web page should present a feedback form for the customer.

OR

(b) (i) Write a JavaScript program to count the number of unique alphabets present in a given string. (8)

(ii) Discuss about the different types of Cascading style sheets. (8)

12. (a) (i) Give a detailed description for creation of packages in Java with an example. (10)

(ii) List the different context in which the final keyword is used in Java. (6)

OR

(b) With an example explain about multithreaded programming concept in Java.

13. (a) Write a java programme that queries for a customer information from a database, the programme must also facilitates insertion, deletion and updation of customer details into the database.

OR

(b) Write an RMI programme in which the remote method computers the factorial of the number given by the client.

14. (a) (i) With an example explain how parameters are passed to an applet.

(ii) Explain how Graphics class can be in an applet.

OR

(b) Explain about the session tracking mechanism of a serve let.

15. (a) Give a brief note on XSL and XSLT.

OR

(b) Explain about creating and using of a Java web services.

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Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 72055

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Fifth Semester

Information Technology

IT 6503 — WEB PROGRAMMING

(Regulations 2013).

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is a JavaScripts statement? Give example.

2.   How a scripting language differs from HTML?

3.   What is inheritance?

4.   Define an exception. Give example.

5.   What is an IP address? Give example.

6.   Define a socket. Classify sockets.

7.   Define a Java applet.

8.   What are AWT controls?

9.   What is the purpose of XSLT?

10.   Define a web service.

PART B — (5 × 16 = 80 marks)

11.   (a)   (i)   Outline the different types of cascading style sheets.   (8)

            (ii)   Compare the features of client side scripting languages and server side scripting languages.   (8)

Or

(b) Create a website using HTML for a "Library management system". Your website should have a home page which helps the user to navigate to various pages like student membership, books catalog, transactions and search pages. (16)

12. (a) (i) Write a Java program to sort an array of 'n' numbers in ascending order. (8)

(ii) Write a multithreaded Java program to generate even, odd and prime numbers. (8)

Or

(b) (i) Explain exception handling in Java with examples. (8)

(ii) Explain string handling in Java with examples. (8)

13. (a) Explain with an example how a Java application can access a database using JDBC. (16)

Or

(b) Explain with an example the process of developing a client-server program using RMI in Java. (16)

14. (a) Explain with diagrammatic illustration the following :

(i) Life cycle of a servlet. (8)

(ii) Life cycle of an applet. (8)

Or

(b) (i) How to add images to an applet? Explain with an example. (8)

(ii) Highlight the features of JSP. (8)

15. (a) (i) Create a CD catalog (title, artist, country, price, year) using XML. (8)

(ii) Explain in detail about XSL. (8)

Or

(b) Explain the process of creating and using Java web services. (16)

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Reg. No. :

Question Paper Code : 41297

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Fifth Semester
Information Technology
IT 6503 – WEB PROGRAMMING
(Regulations 2013)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. List the difference between client side and server side scripting.

2. List out the limitations of CSS.

3. State the purpose of encapsulation.

4. What is the use of StringBuffer class in Java ?

5. How JDBC API does helps us in achieving loose coupling between Java Program and JDBC Drivers API ?

6. How to access the java bean class ? Give example.

7. How to implement an applet into a web page using applet tag ?

8. When are Cookies created ? How long does a cookie last ?

9. What is a well formed XML document ?

10. What are the uses of WSDL in Web Service interaction ?

PART – B   (5×13=65 Marks)

11. A) i) Describe the difference between document and window objects with suitable examples.   (7)
       ii) Develop a web page for student data form using HTML and validate the registration form   (6)

(OR)

    B) Explain in detail about CSS3 and their types with suitable example program.   (13)

12. A) Elaborate the inheritance and their types in Java with example coding. (13)

(OR)

B) What is Exception Handling ? Explain with an example of java programs. (13)

13. A) i) What is batch processing and explain how batch processing is done in JDBC ? (7)
    ii) Write a short note on Catching Database Result. (6)

(OR)

B) Explain the architecture of RMI in detail with neat diagram. (13)

14. A) Explain the life cycle of an Applet. How will you add image and sound files in applet explain with example code ? (13)

(OR)

B) i) What is HTTP ? What are HTTP request and response ? Give the limitations of HTTP. (10)
   ii) Explain the life cycle of servlet. (3)

15. A) Develop XML document that will hold player (like cricket) collection with field for player -name, age, batting-average and highest-score. Write suitable document type definition and schema for the XML. (13)

(OR)

B) Explain the following with suitable example.
   i) UDDI. (6)
   ii) WSDL. (7)

PART – C (1×15=15 Marks)

16. A) Implement a remote phone book server that maintains a file of names and phone numbers and a client allows the user to scroll through the file using RMI concept. (15)

(OR)

B) Write the case study of discovery and analysis of web usage patterns and explain the current trends. (15)

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B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Fifth Semester

Information Technology

IT 6503 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Differentiate Client side and Server side Scripts.

2.   What is meant by Canvas in HTML?

3.   Differentiate Class and Interface in Java.

4.   Write a Java code to find the Fibonacci series of a given number.

5.   Mention the purpose of using URL class.

6.   What is Java Bean? Write the properties of Java Bean.

7.   Write the life cycle of an Applet.

8.   How sessions are handled in Servlets?

9.   What is XSLT?

10. What is Java Web Service? Draw the architecture of Web Service.

PART B — (5 × 16 = 80 marks)

11. (a)   (i)   Describe how do you use JavaScript for form validation. Develop a complete application that would include functions to validate the user data.   (10)

     (ii) Write short notes on JavaScript built-in objects.   (6)

Or

     (b)   (i)   Write a JavaScript to find sum of the first *n* even number and display the result. Read the value of *n* from the user.   (8)

     (ii) Explain in detail about CSS.   (8)

12. (a) (i) What is Package? Give a detailed description for creation of packages in Java with example. (10)

(ii) List the different contexts in which the final keyword is used in Java. (6)

Or

(b) Explain how exceptions are handled in Java. Also explain various categories of exceptions in Java with suitable examples. (16)

13. (a) Write a Java program that queries for student information from a database. The program must also facilitate insertion, deletion and updation of student details into the database. (16)

Or

(b) Explain RMI. Write an RMI program that generates 'n' prime numbers. (16)

14. (a) What is Applet? Explain how the parameters are passed to an Applet with suitable example. (16)

Or

(b) (i) Explain the various Layout Managers in Java with neat diagram. (10)

(ii) Write the advantages of JSP over Servlets. (6)

15. (a) Write short notes on XSL and XSLT. (16)

Or

(b) (i) Explain briefly about UDDI and SOAP. (10)

(ii) Implement a simple SOAP Web service analogous to the Calculator service. (6)

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Reg. No. :

Question Paper Code : 50766

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Fifth Semester

Information Technology

IT 6503 – WEB PROGRAMMING

(Regulations 2013)

Time : Three Hours
Maximum : 100 Marks

Answer ALL questions

PART – A
(10×2=20 Marks)

1. What is the significance of, and reason for, wrapping the entire content of a JavaScript source file in a function block ?

2. What is the difference between undefined value and null value ?

3. What gives Java its 'write once and run anywhere' nature ?

4. If I don't provide any arguments on the command line, then the string array of Main method will be empty or null ? Justify.

5. What are the main steps in java to make JDBC connectivity ?

6. What is the difference between Statement and Prepared-Statement interface ?

7. How to implement on applet into a web page using applet tag ?

8. Where do you prefer AWT controller ? Give an example.

9. State the advantages of ebXML.

10. What are the uses of WSDL and XLang in Web Service interaction ?

PART – B
(5×13=65 Marks)

11. A) i) Differentiate client side and server side scripting with suitable examples. (7)

ii) Develop a web page for student data form using HTML and validate the registration form. (6)

(OR)

B) i) Explain in detail about CSS3 and their types with suitable example program. (13)

12. A) i) Write a Java program that acts as a web server and transfer the HTML file
requested by the browser client. **(13)**

(OR)

B) i) What is exception handling ? Explain with example java programs. **(13)**

13. A) i) What is batch processing and how to perform batch processing in JDBC ? **(7)**

ii) Write a short note on catching database result. **(6)**

(OR)

B) i) Explain the following with suitable example.

1) How implement Java Beans ? **(6)**

2) Differentiate TCP sockets and UDP sockets. **(7)**

14. A) i) Explain the lifecycle of Apple. How will you pass parameters to Applet ? **(6)**

ii) Write a program using applet to print the area of various shapes rectangle,
circle, square using the concept of virtual function. **(7)**

(OR)

B) i) What is HTTP ? What are HTTP request and response ? Give the limitations
of HTTP. **(10)**

ii) Explain the life cycle of servlet. **(3)**

15. A) i) Develop XML document that will hold player (Like Cricket) collection with
field for player – name, age, batting – average and highest – score. Write
suitable document type definition and schema for the XML. **(13)**

(OR)

B) i) Design a railway reservation system using UDDI and WSDL for the following
case study. Railway could register their services into an UDDI directory for
checking the train rate and reservation. Travel agencies could then search the
UDDI directory to find the railway reservation interface for ticket booking. **(13)**

PART – C **(1×15=15 Marks)**

16. A) i) What is RMI ? Create a remote phone book server that maintains a file of
names and phone numbers and a client allows the user to scroll through the
file using RMI concept. **(15)**

(OR)

B) i) Write the case study of discovery and analysis of Web Usage Patterns and
explain the current trends. **(15)**

Question Paper Code : 91772

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Fifth Semester

Information Technology

IT 6503 – WEB PROGRAMMING

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is HTML canvas and what are the uses of it ?

2. What are object literals in JavaScript ?

3. What are the salient features of Java ?

4. Show the general form of exception handling in Java.

5. What is an IP address ? Give example.

6. Define a socket. Classify sockets.

7. How to implement on applet into a web page using applet tag ?

8. Where do you prefer AWT controller ? Give an example.

9. What is a well formed XML document ?

10. What are the uses of WSDL in Web Service interaction ?

PART – B

(5×13=65 Marks)

11. a) i) Explain different types of cascading style sheets. (7)

    ii) Compare the features of client side scripting languages and server side scripting languages. (6)

   (OR)

  b) i) Write a JavaScript program to find palindrome of a given input string. (7)

    ii) Explain Browser Object Model in detail. (6)

12. a) Elaborate the inheritance and their types in Java with example coding. **(13)**

(OR)

b) What is Exception Handling ? Explain with an example. **(13)**

13. a) Explain the concept of JDBC in detail. **(13)**

(OR)

b) i) Write note on Java URL class. **(7)**

ii) What is InetAddress ? Explain the three InetAddress factory methods. **(6)**

14. a) i) What is a cookie and what are the advantages and disadvantages of cookie ? How to create and delete a cookie ? Illustrate with an example. **(7)**

ii) Explain the Life cycle of the servlet in detail. **(6)**

(OR)

b) i) How to pass parameters to applets ? Explain with suitable example. **(7)**

ii) Explain any two AWT Layout Manager Classes in detail. **(6)**

15. a) Develop XML document that will hold player (Like Cricket) collection with field for player – name, age, batting – average and highest – score. Write suitable document type definition and schema for the XML. **(13)**

(OR)

b) Design a railway reservation system using UDDI and WSDL for the following case study. Railway could register their services into an UDDI directory for checking the train rate and reservation. travel agencies could then search the UDDI directory to find the railway reservation interface for ticket booking. **(13)**

PART – C **(1×15=15 Marks)**

16. a) i) Explain the usage of multithreading with an example. **(8)**

ii) Describe the various features of HTML with example. **(7)**

(OR)

b) Develop a "Blood Bank" application to store user's blood group in the database. Provide a search functionality to find the existence of the blood group in database using JDBC. **(15)**

Reg. No. :

Question Paper Code : 20740

B.E/B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Fifth Semester

Information Technology

IT 6503 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is HTML canvas and what are the uses of it?

2.   What are object literals in JavaScript?

3.   What is reference variable in Java?

4.   Differentiate between packages and interfaces in Java.

5.   What is Java bean and explain its user?

6.   What are the statements in JDBC?

7.   What are the main differences between Java applications and applets?

8.   What are the JSP Advantages over servlets?

9.   What are the advantages of using XML in data interchanging?

10. What is UDDI?

PART B — (5 × 13 = 65 marks)

11. (a) (i)   Explain the looping statement is JavaScript each with an example.

                                                                          (7)

          (ii) Explain any three built-in functions in JavaScript each with an
                example.   (6)

                                    Or

     (b) (i)   Briefly discuss about Browser Object Model.   (7)

          (ii) What is frame? What are the benefits frame? Explain creation of
                different kinds of frames in detail.   (6)

12. (a) (i) Briefly describe the object oriented features of java each with an example. (7)

    (ii) Describe me mutable and immutable string handling feature in java. (6)

Or

(b) (i) What is user-defined exception in Java and how to create user defined exception in Java? Illustrate with an example. (6)

    (ii) What is multithreading in Java and what are the advantages of multithreading? Explain the thread life cycle in Java. (7)

13. (a) Describe JDBC architecture with the common JDBC components in detail. (13)

Or

(b). (i) What is a socket? Explain the important methods defined in the socket class and serversocket class. (7)

    (ii) Develop a simple connection-oriented socket program to sends message from client to server. (6)

14. (a) (i) What is a cookie and what are the advantages and disadvantages of cookie? How to create and delete a cookie? Illustrate with an example. (8)

    (ii) Explain the Life cycle of the servlet in detail. (5)

Or

(b) (i) How to pass parameters to applets? Explain with suitable example. (7)

    (ii) Explain any two AWT Layout Manager Classes in detail. (6)

15. (a) (i) What is WSDL? Describe the structure of the WSDL document in detail. (8)

    (ii) What is a web service? List any four the benefits of web services. (5)

Or

(b) (i) What is an XML document? Illustrate with an example. (6)

    (ii) With suitable example explain how XSLT can be used to transform a document from XML to XHTML. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Explain various session management techniques in detail with suitable example.

Or

(b) The Learners' License issuing authority has decided to automate the process by introducing online registration for requesting the Learners' License. Develop an online registration form to register for the Learners' License. The form should include suitable fields to get the inputs from the user. The form should also contain input fields to get the email-id and mobile number of the user in addition to other general information. Once the required details are entered, validate all the fields in the form using JavaScript, then a unique registration is generated and display on the screen. Store all the user inputs and the registration number in a table.