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**Question Paper Code : J1513**

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2018.

Third Semester

Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is a dialog and what are the types of dialog supported by JavaScript?
2. Name any four Date related functions in JavaScript.
3. What is XML namespace?
4. What is XML parser? Name any two XML parsers.
5. How to declare and initialize 2-dimensional array in Java?
6. What is the use of java matcher class?
7. Differentiate between applet and java program.
8. What is swing and how it differs from AWT?
9. What is meant by data driven website?
10. What is JSP? What are the advantages of JSP over Servlets?

## PART B — (5 × 13 = 65 marks)

11. (a) (i) Explain the different types of cascading style sheet representations with example program. (6)
- (ii) What is regular expression in JavaScript? Describe the methods that use regular expressions in JavaScript. (7)

Or

- (b) (i) Explain different types of arrays in JavaScript each with an example. (10)
- (ii) Write JavaScript code to get a message from the user and display in browser status bar. (3)
12. (a) (i) Explain how to display an XML document of a given type using XSL with an example. (7)
- (ii) Discuss about structuring of XML document using schema and DTD with suitable example. (6)

Or

- (b) (i) Explain the approaches for parsing XML document. (6)
- (ii) What is AJAX? Discuss about the features of AJAX for building interactive applications for the Web. (7)
13. (a) (i) Create a class 'Account' with two overloaded constructors. The first constructor is used for initializing, the name of account holder, account number and initial amount in the account. The second constructor is used for initializing the name of the account holder, account number, the addresses, type of account and current balance. The Account class is having methods Deposit(), Withdraw( ), and Get\_Balance( ). Make the necessary assumption for data members and return types of the methods. Create objects of Account class and use them. (7)
- (ii) With suitable example, differentiate between abstract class and java interface. (6)

Or

- (b) (i) Create a package 'ItemPack' which includes class 'ITEM' with ItemCode, ItemName, rate, quantity as attributes and a method displayItems(). Accept the item details using constructor. Also create an interface having method calculate Amount() with rate and quantity as arguments. Create a class, which overrides these methods. (7)
- (ii) Explain user defined exception handling in java with suitable example. (6)

14. (a) (i) Illustrate the benefits of generic classes with suitable example. (3)  
 (ii) Describe applet life cycle with suitable example. (10)

Or

- (b) (i) What are the methods and classes required for JDBC connectivity? (3)  
 (ii) Describe the methods and properties of any four GUI components. (10)
15. (a) (i) Develop a web site for online course registration for a technological university. Write a JavaScript code for validating the web pages. (7)  
 (ii) How do you access a database from JSP page? Explain with an example. (6)

Or

- (b) (i) What is servlet? Describe the life cycle of a servlet with suitable example. (7)  
 (ii) Explain JSP session tracking approaches in detail. (6)

PART C — (1 × 15 = 15 marks)

16. (a) Explain in detail about Exception handling in JAVA. (15)

Or

- (b) (i) What is HTML? Explain any five features.  
 (ii) How to integrate XML with database? Explain with examples.

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<b>Question Paper Code : BS2513</b>
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M.Sc. DEGREE EXAMINATION, AUGUST/SEPTEMBER 2017.

Third Semester

Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is XHTML?
2. Define an array in JavaScript.
3. Define XPath.
4. What is AJAX?
5. Give a syntax to declare a method in Java.
6. List the quantifiers used in regular expression in Java.
7. What are generic methods?
8. Write the use of applet container.
9. What are the characteristics of Servlets?
10. Highlight the applications of JSP.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Describe the various font and text properties of cascading style sheets. (8)
- (ii) List out the operators supported in JavaScript. (5)

Or

- (b) Write a detailed note on JavaScript objects. (13)

12. (a) Explain the concept of parsing XML using DOM. (13)

Or

- (b) Discuss how to integrate XML with database. (13)

13. (a) (i) Write a java program to add the given two matrices. (8)

- (ii) Brief about string methods in Java. (5)

Or

- (b) (i) Explain how to create an interface in Java. (8)

- (ii) Show the Java exception hierarchy. (5)

14. (a) (i) Elaborate on Java applet life cycle methods. (8)

- (ii) What is swing? Explain. (5)

Or

- (b) Write a note on Java GUI components. (13)

15. (a) (i) Narrate the life cycle of servlet. (8)

- (ii) Briefly explain about servlet support for cookies. (5)

Or

- (b) Discuss the steps involved in developing a dynamic website. (13)

PART C — ( $1 \times 15 = 15$  marks)

16. (a) With a simple application, explain how to create and import package in Java. (15)

Or

- (b) Explain the way of accessing database with JDBC with an example. (15)

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**Question Paper Code : KJ1513**

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2017.

### Third Semester

# Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the purpose of using generic domains in DNS?
2. List four new features of HTML 5.
3. What is JSON?
4. What are the goals of Ajax? List two characteristics of Ajax that helps it to achieve these goals.
5. How are regular expressions handled in Java?
6. What is the purpose of String Builder?
7. What is an applet based GUI?
8. List the basic GUI components.
9. What is session tracking? What is its purpose?
10. What is data driven website?



PART B — (5 × 16 = 80 marks)

11. (a) (i) How can regular expressions be used for pattern matching? Illustrate with suitable examples. (6)
- (ii) What are the types of lists in XHTML? Create a nested list in XHTML. Modify the XHTML document to make different levels of lists in different colors using document style sheet. (10)

Or

- (b) (i) How javascript can handle dynamic documents? Discuss. (8)
- (ii) Create and validate an XHTML document that has two frames in one column. Top frame has links and documents are displayed in bottom frames. (8)
12. (a) (i) Discuss how DTD is used for validating XML? (8)
- (ii) Distinguish between XML Schema and DTD. Compare and contrast, giving the advantages and disadvantages. Create DTD and XML schema for the following XML document (8)

```
<note>
<date>
<day>12</day>
<month> 11</month>
<year>2012</year>
</date>
<to>Jim</to>
<from>Jack</from>
<heading>Reminder</heading>
<body>Movie outing!</body>
</note>
```

Or

- (b) (i) How is DOM used for XML parsing? Explain. (8)
- (ii) Discuss in detail how XSL can define XML document transformations and presentation with an example. (8)
13. (a) (i) Write a generic class template for Stack and illustrate how it can be used. (8)
- (ii) What is an interface? How to declare and implement an interface? (8)

Or

- (b) (i) What is an exception? Describe the syntax of the exception handling code with an example. (8)
- (ii) What is the purpose of constructors and destructors? Discuss with examples. (8)



14. (a) (i) Explain in detail the life cycle of an applet with a diagram. (8)  
(ii) What are swings? Explain the various swing controls. (8)

Or

- (b) (i) Write down the steps for using JDBC to access a database and Explain. (8)  
(ii) Write a Java program to access the details of patients stored in a file. Display the contents of the records of the patient based on treatment on the screen. (8)
15. (a) (i) Discuss how JSP can be used for development of dynamic websites with illustrations. (8)  
(ii) Describe in detail the lifecycle of a servlet. (8)

Or

- (b) (i) With suitable examples explain the different looping statements used in JSP programs. (8)  
(ii) Write a simple servlet program to retrieve the patient details from a relational database and display the results. (8)
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**Reg. No.:**

**Question Paper Code : S1513**

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2016.

### Third Semester

Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the Importance of utility packages in JAVA.
2. How do you make a new paragraph in HTML?
3. Define XML parser.
4. What is a XML schema?
5. Classify Enterprise JAVA beans.
6. What are the functions of a Servlet?
7. Define Applets.
8. What is Interface design? Why it is needed?
9. Define Servlet life cycle.
10. What is the need for database connectivity?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is the difference between form get and form post? - Explain. (8)
- (ii) Name three ways to define a color in HTML with suitable examples. (8)

Or



- (b) (i) What is a sprite? How is it applied using CSS? State its use. (8)
- (ii) What is a java script object? Explain with suitable example. (8)
- 12. (a) (i) What is XML? List the rules to be followed by an XML document. (8)
- (ii) Explain in detail about Document Type Definition in XML. (8)

Or

- (b) (i) Discuss about parsing XML using DOM. (8)
- (ii) How can you integrate XML with database? Illustrate with an example. (8)
- 13. (a) (i) Explain the concepts of class, object and method in Java with an example. (8)
- (ii) Illustrate the exception handling techniques in Java with example. (8)

Or

- (b) (i) Distinguish between Arrays and Array Lists in Java with examples. (8)
- (ii) Write a note on Packages and Interfaces. (8)
- 14. (a) Explain the need of Java GUI and database connectivity with suitable illustrations. (16)

Or

- (b) (i) Discuss the concepts of Swings. (8)
- (ii) Explain about Applet life cycle methods. (8)
- 15. (a) How can you run servlet with database connectivity? Explain in detail with suitable example. (16)

Or

- (b) Write notes on the following :
  - (i) Servlet configuration. (8)
  - (ii) Servlet Life cycle. (8)



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**Question Paper Code : 80513**

M.Sc. DEGREE EXAMINATION, AUGUST 2015.

Third Semester

Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — ( $10 \times 2 = 20$  marks)

1. What is the form of an IP address?
2. What are the differences between Java and JavaScript?
3. Define XML schema.
4. What is XSLT?
5. State the important features of Java.
6. What are regular expressions in Java?
7. Define GUI.
8. What is JDBC?
9. What are Servlets?
10. Define Session tracking.

PART B — ( $5 \times 16 = 80$  marks)

11. (a) (i) Create, test and validate an XHTML document that has two frames in one column. The top frame, which must be 20 percent of the column, must have at least four links to other documents; the bottom frame will display those documents. The links must be the names of cars; the documents must be at least five-line descriptions of the cars. (8)
  - (ii) Explain the three phases of event processing in DOM 2 event model. (8)
- Or
- (b) (i) Describe the different types of CSS selector forms. (8)
  - (ii) How java script handles dynamic documents? Discuss. (8)



12. (a) (i) How DOM is used for XML parsing? Explain. (8)  
(ii) How a web page can fetch information from an XML file with AJAX? Explain with example. (8)

Or

- (b) (i) Describe how DTDs are used for validating XML. (8)  
(ii) How to integrate XML with a database? Discuss. (8)
13. (a) (i) How constructors and destructors are used in Java? Discuss with example. (8)  
(ii) How does a string class differ from string buffer class? Explain. (8)

Or

- (b) (i) How exceptions are handled in Java? Explain. (8)  
(ii) What is an interface? How to declare and implement interfaces? Discuss. (8)
14. (a) (i) What are generic classes? Write a Java code to define a generic class. (8)  
(ii) How to handle databases in Java using JDBC? Discuss with example. (8)

Or

- (b) (i) What is an applet? Describe the life cycle of an applet. (8)  
(ii) What are swings? Explain the various swing controls. (8)
15. (a) (i) Explain the life cycle of a servlet. (8)  
(ii) How to develop dynamic web sites using JSP? Discuss. (8)

Or

- (b) (i) What are cookies? Explain the different servlet-cookies methods. (8)  
(ii) Write a Java code to access a database using servlet. (8)



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<b>Question Paper Code : 22464</b>
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M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2015.

Third Semester

Computer Science

DCS 7303 — WEB PROGRAMMING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define XHTML.
2. List the needs for dynamic documents.
3. What is the use of DOM?
4. Justify the need for data base integration for web applications.
5. What is a class pattern?
6. Write the format for exception handling in Java.
7. Expand SAX, XSL, JDBC, DTD.
8. Define an applet. Write its interfaces.
9. What is a data driven website?
10. Define a Session and name its components.

PART B — (5 × 16 = 80 marks)

11. (a) Illustrate the usage of Date and array in javascript. (16)

Or

- (b) (i) Write short notes on CSS. (8)  
(ii) Write about javascript objects. (8)



12. (a) Explain on :  
(i) Xpath (8)  
(ii) XLink. (8)

Or

- (b) Describe on :  
(i) JASON (8)  
(ii) RSS (8)

13. (a) Write a java program to illustrate sorting of String objects. (16)

Or

- (b) Discuss about :  
(i) packages in java (8)  
(ii) interfaces in java. (8)

14. (a) Illustrate JDBC with employee salary processing system as example. (16)

Or

- (b) (i) Write short notes on applet life cycle methods. (8)  
(ii) Explain java swings. (8)

15. (a) Develop a website depicting Anna University engineering counselling and course allotment process. (16)

Or

- (b) Explain :  
(i) Servlet configuration. (8)  
(ii) Session tracking. (8)
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