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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)
Sixth Semester, B.E. - Computer Science and Engineering
Semester End Examination; May/June - 2018
Java and J2EE

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

UNII - I		
Describe the characteristics of Java.	8	
Write a Java program to find the largest element in an array of elements using for-each	6	
loop construct.	6	
Distinguish between interface and class.	6	
Define package. With sample code explain the concept of package.	10	
b. With an example, explain the structure of a simple Java program.		
Explain the concept of auto boxing in Java.	4	
UNIT - II		
Define the role of synchronization. Write an example program using synchronized methods.	8	
Explain the significance of isAlive() and join() methods in Java thread implementation.	8	
Explain generic interfaces.	4	
Explain any six methods of URLConnection class.	6	
Discuss how InetAddress class is used to handle IPV4 and IPV6 in Java.	8	
Write a note on TCP/IP server socket.	6	
UNIT - III		
Explain the delegation event model mechanism for handling events.	10	
Write a Java program to demonstrate virtual key codes for handling key board events.	10	
Explain the collection interface and any six methods, defined by collection.	10	
Illustrate get_DocumentBase() and get_Codebase () methods in Applets with Java code	10	
snippets.	10	
UNIT - IV		
Describe the working of JDBC. List and explain the different types of JDBC drivers.	10	
Define Servlet. Explain the life cycle of Servlet.	10	
Distinguish between CGI and Servlets.	5	
Write a program to read a data from the ResultSet.	5	
Write an HTML document that has a form. From contains a list of 6 department name, and a		
write an ITTME document that has a form. I form contains a first of 6 department name, and a		
submit button. On submission of HTML document call a Servlet. Write a Servlet that displays	10	
	Write a Java program to find the largest element in an array of elements using for-each loop construct. Distinguish between interface and class. Define package. With sample code explain the concept of package. With an example, explain the structure of a simple Java program. Explain the concept of auto boxing in Java. UNIT - II Define the role of synchronization. Write an example program using synchronized methods. Explain the significance of isAlive() and join() methods in Java thread implementation. Explain generic interfaces. Explain any six methods of URLConnection class. Discuss how InetAddress class is used to handle IPV4 and IPV6 in Java. Write a note on TCP/IP server socket. UNIT - III Explain the delegation event model mechanism for handling events. Write a Java program to demonstrate virtual key codes for handling key board events. Explain the collection interface and any six methods, defined by collection. Illustrate get_DocumentBase() and get_Codebase () methods in Applets with Java code snippets. UNIT - IV Describe the working of JDBC. List and explain the different types of JDBC drivers. Define Servlet. Explain the life cycle of Servlet. Distinguish between CGI and Servlets. Write a program to read a data from the ResultSet.	

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UNIT - V

9 a.	Define JSP. List and explain various tags used in JSP.	1(
b.	Discuss the concepts of Entity Java Bean with the help of skeleton code.	10
10 a.	Explain the concept of Java RMI.	10
b.	Explain in detail deployment descriptor of EJB.	10

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