12049

32623/F230

Reg. No.

VI Semester BCA3 Degree Examination, May - 2019

J2EE
(Regular and Repeaters)
(Theory)

Time : 3 Hours

Max. Marks : 80

Instruction : Answer All Sections.

SECTION - A

1. Answer **any ten.**   10x2=20

   (a) Name any four swing containers.

   (b) List any four swing events associated with swing components.

   (c) What is the primary use of a Cookie ?

   (d) Give the syntax of any two constructors of DatagramPacket class.

   (e) Name any four classes of javax.servlet package.

   (f) List the prominent methods in the life cycle of a servlet.

   (g) Provide the name and syntax of the method used to establish connection with DBMS using java as front end.

   (h) List any four data types used with getxxx( ) and setxxx( ) methods.

   (i) What is a JAR file ?

   (j) What do you mean by Remote Method Invocation ?

   (k) List different types of JDBC drivers and mention their uses.

   (l) Name different types of EJB's.

SECTION - B

Answer **any four.**   4x5=20

2. Write a note on JRadioButton.

3. Explain how objects of InetAddress class can be obtained using factory methods.

4. Explain any five methods of the Servlet interface.

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5.   Write a note on transaction processing using java.

6.   What is a Message Driven Bean ? Explain the prominent methods of MDB.

7.   Explain the MVC concept in Swings.

SECTION - C

Answer **any four**.

8.   (a)   Write a note on JCheckBox.   5+5=10
     (b)   Write a Swing program to display list of operating systems using JComboBox.

9.   (a)   Explain the constructors and methods of DatagramSocket class.   6+4=10
     (b)   Write a Java program to obtain protocol, port, host name and external form of
           www.google.com.

10. (a)   Explain any five JSP directives with syntax.   5+5=10
     (b)   Write a java servlet program that reads parameters from a HTML file and displays
           the same.

11. (a)   Along with syntax explain the working of following methods.   6+4=10
           (i)   execute( )   (ii)   executeQuery( )   (iii)   executeUpdate( )
     (b)   Explain how the records can be read using Resultset.

12. (a)   Explain   (i)   EJB containers   (ii)   EJB classes and   (iii)   EJB interfaces
     (b)   Write a note on Deployment Descriptors in EJB.   6+4=10

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11924

32622/F220

Reg. No.

VI Semester BCA3 Degree Examination, May - 2019

BUSINESS INTELLIGENCE

(Regular / Repeater)

Theory

Time : 3 Hours   Max. Marks : 80

Instructions :   (1)   **All** Parts are **compulsory**.

(2)   Draw diagrams wherever necessary.

PART - A

1.   Answer **any ten** of the following :   10×2=20

(a)   Define leadership triad of performance excellence framework.

(b)   What is meant by Bespoke IT Applications ?

(c)   What is unstructured data ?

(d)   Define OLTP.

(e)   Mention the advantage of OLAP.

(f)   List different types of BI users.

(g)   How BI users are classified ?

(h)   Define data warehouse according to W.H. Inmon.

(i)   What are data marts ?

(j)   What are fact tables ?

(k)   Mention different types of dimension table.

(l)   What are dashboards ?

PART - B

Answer **any four** of the following :   4x5=20

2.   Explain core business process of an enterprise.

3.   What is ROLAP ? What are its advantages and disadvantages.

4.   Explain Bill Inmon's approach to build data warehouse.

5.   Discuss different types of decision support system in BI.

6.   Explain the different terminologies used in measurement system.

7.   Write a note on balanced scorecard.

PART - C

Answer **any four** of the following :   4x10=40

8.   (a)   Which are the different sources of unstructured data ?   5+5=10
     (b)   What challenges are faced while storing unstructured data ?

9.   (a)   Explain advantages and challenges of an OLTP system.   5+5=10
     (b)   Write the differenced between OLTP and OLAP.

10. (a)   Briefly explain dimension modeling life cycle.   5+5=10
     (b)   Mention the goals of data warehouse.

11. Write in brief on following data models.   10
     (a)   Conceptual
     (b)   Logical
     (c)   Physical

12. Mention the importance of dashboards for enterprises. Explain different types of   10
     dashboards.

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11888

32621/F210

Reg. No.

VI Semester B.C.A.3 Degree Examination, May - 2019

SOFTWARE PRACTICES AND TESTING

(Regular/Repeater)

Theory

Time : 3 Hours
Max. Marks : 80

Instructions : (1) *Answer all sections as per instructions.*

(2) *Draw diagrams wherever necessary.*

SECTION - A

1. Answer **any 10** questions, **2** marks each.
10x2=20

(a) What is formal inspection ?

(b) What is structural testing ?

(c) Write a formula for calculating cyclomatic complexity

(d) What is bottom up integration ?

(e) Write any two differences between quality assurance and quality control.

(f) What is beta testing ?

(g) What is stress testing ?

(h) What is performance benchmarking ?

(i) Name the tools used for testing object oriented systems.

(j) What is accessibility testing ?

(k) Differentiate between testing and development.

(l) What do you mean by risk quantification ?

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SECTION - B

Answer **any - 4** questions, **five** marks each. 4x5=20

2. Explain the spiral model of software development with neat diagram.

3. Explain the classification of whitebox testing.

4. Differentiate between functional and non functional testing.

5. Explain the criteria for acceptance testing.

6. Differentiate between topdown and bottomup approach of integration testing.

7. Discuss the methodology for performance testing.

SECTION - C

Answer **any - 4** questions, **10** marks each : 4x10=40

8. (a) Explain blackbox testing with test cases. 5+5
   (b) Explain the quality factors for usability.

9. (a) What are the categories of accessibility testing ? Explain. 5+5
   (b) Write down the responsibilities of test lead.

10. (a) Explain with an example the process of calculating cyclomatic complexity. 5+5
    (b) What are the career progressions for testing professionals.

11. (a) Explain the fundamental principles of testing. 5+5
    (b) Explain the types of regression testing.

12. (a) Explain the skills needed for test automation. 5+5
    (b) Explain waterfall model of software development with neat diagram.

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