

32622/F 220

Reg. No.

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VI Semester B.C.A.3 Degree Examination, May/June 2017
BUSINESS INTELLIGENCE
(2017-18) (Regular)

Time : 3 Hours

Max. Marks : 80

- Instructions:** 1) Answer *all* Sections.
2) Draw diagram *wherever* necessary.

PART – A

1. Answer **any ten** of the following : **(10×2=20)**
- Define data. Mention the different types of digital data.
 - What are office automation tools ? Give example.
 - Define OLTP. Give example.
 - What is meant by BI value chain ?
 - Mention the advantages of data profiling.
 - How are BI users classified ?
 - List the features of conceptual data model.
 - What is a metric ?
 - List any four report delivery formats.
 - Mention any two perspectives of a balanced score card.
 - What are sources of semistructured data ?
 - What are non-additive facts ?

PART – B

Answer **any four** of the following : **(4×5=20)**

- Explain the characteristics of internet ready applications.
- What is ROLAP ? What are its advantages and disadvantages.
- Discuss the role of a Decision support analyst in a BI project team.

P.T.O.



5. Explain the various approaches of handling slowly changing dimension.
6. What is a dashboard ? List the steps for creating a dashboard.
7. Write a note on BI for past, present and future.

PART – C

Answer **any four** of the following :

(4×10=40)

8. Discuss the challenges faced and solutions to the storage and retrieval of unstructured data.
 9. Compare and contrast OLTP and OLAP.
 10. What is data quality ? Explain the various quality dimensions of data.
 11. a) Describe the SMART test for metric relevance to business.
b) Write a note on fact constellation schema. **(5+5)**
 12. Explain the various types of report layouts.
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**VI Semester B.C.A.3 Degree Examination, May/June 2017
(Regular)
J2EE (2017– 18)**

Time : 3 Hours

Max. Marks : 80

Instruction : Answer all Sections.

SECTION – A

1. Answer **any ten**. **(10×2=20)**
- Name any four top level containers.
 - List any two constructors of JLabel class. Give their syntax.
 - Name any two instance methods.
 - List any two Datagram classes.
 - What are the steps involved in connecting DBMS and Java ?
 - Mention any two Database Meta Data methods.
 - What are the exceptions thrown by a servlet ?
 - Name the interfaces of javax. servlet package.
 - List the contents of JAR file used to package on EJB.
 - Name the default methods of JSP.
 - What are the steps required to be taken before running a client in RMI ?
 - Name any four swing Button classes.

SECTION – B

- Answer **any four**. **(4×5=20)**
- Write a Java program containing a combobox displaying the entries "India", "France", "Israel" and "Russia".
 - Write a note on JTabbedPane.
 - Along with syntax explain the significance of factory methods. Write a Java program to display the address "www.rcub.ac.in".

P.T.O.



5. Explain how transaction processing can be achieved with the help of savepoints.
6. Using a Java program demonstrate how parameters can be passed to a servlet.
7. What is session bean ? Differentiate between a stateful and stateless bean.

SECTION – C

Answer any four.

(4×10=40)

8. Explain any five events associated with swing components with syntax, explain the working of methods associated with these events.
9. a) Write a program which implements networked communication between client and server [using command prompt].
b) Explain socket and server socket. (6+4=10)
10. a) Discuss in detail how prepared statement object can be used to make an sql query/statement dynamic.
b) Write a Java program to insert data into STUDENT (roll no., name, address, phone no.) database using prepared statement object. Retrieve info base on particular queries. (5+5=10)
11. Explain the following
a) Generic Servlet
b) HttpServletRequest
c) HttpServletResponse
d) HttpSession
e) Cookie (2+2+2+2+2)
12. a) What is a message driven bean ? Explain the process of creating a message driven bean.
b) Explain basic JSP tags with examples. (5+5=10)



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VI Semester B.C.A.3 Examination, May/June 2017
(2017 – 18)
SOFTWARE PRACTICES AND TESTING
(Regular)

Time : 3 Hours

Max. Marks : 80

- Instructions:** 1) Answer the questions of **all three** Sections.
2) Draw diagrams **wherever** necessary.

SECTION – A

1. Answer **any 10** questions, **2** marks **each**.

(10×2=20)

- a) What is Quality ?
- b) Define prototype.
- c) What is Code walkthrough ?
- d) How to calculate cyclomatic complexity ?
- e) What is compatibility testing ?
- f) What is Beta Testing ?
- g) What is Stress testing ?
- h) Define and mention the types of Regression Testing.
- i) What is Aesthetics testing ?
- j) Name the elements of a class diagram.
- k) What are the responsibilities of CTO ?
- l) What is test automation ?

P.T.O.



SECTION – B

Answer **any four** questions, **5 marks each**.

(4×5=20)

2. Explain ETVX model of software development with neat diagram.
3. Explain the tools used in testing object oriented systems.
4. Explain the concept of round the clock development.
5. Explain with an example for the calculation of Cyclomatic Complexity.
6. Differentiate functional and non functional testing.
7. Explain the career progressions for a testing professionals.

SECTION – C

Answer **any 4** questions, **10 marks each**.

(4×10=40)

8. a) Differentiate between Quality Assurance and Quality Control.
b) Explain waterfall model of software development. (5+5)
9. Explain the classification of White Box Testing. 10
10. a) Explain positive and negative testing with test cases.
b) Explain Domain Testing. (5+5)
11. a) What is defect bash ? What are the good practices that makes this testing popular ?
b) What are the steps involved in the methodology of performance testing ? Explain. (5+5)
12. a) Explain the organization structure of a multiproduct company.
b) Explain the aspects of Risk management. (5+5)