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VI Semester B.C.A. Theory Examination, September - 2020**CLOUD COMPUTING****Cloud Computing -A Practical approach by Anthony T. Velte****(Regular)****Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:**

Draw neat diagrams wherever necessary.

SECTION - A**1. Answer All the questions.****(10×2=20)**

- a) Define cloud computing.
- b) What is grid computing?
- c) What do you mean by thin client? List its advantages.
- d) What are APIs?
- e) Define active directory.
- f) Mention any two driving forces of SAAS.
- g) Define google gears and force.com.
- h) Define VMware.
- i) What is VMotion?
- j) Expand SOAP and REST.

SECTION - BAnswer any **Four** questions.**(4×5=20)**

2. Why cloud computing matters? Explain with example.
3. Discuss cloud storage providers.
4. With a neat diagram, Explain software as a service
5. Explain Benefits and limitations of virtualized solutions.
6. Discuss briefly cloud services for individuals.

P.T.O.

**SECTION - C**

Answer any **Four** questions.

(4×10=40)

7. a) Explain PAAS and HAAS with a neat diagram.
b) List and explain the services offered by Amazon.
 8. Explain the thin client and thick client. Discuss their major differences.
 9. Discuss mobile device Integration with examples.
 10. Define Bungee connect. Discuss different development platforms
 - a) Intuit quick base
 - b) Cast iron cloud.
 11. Explain the class cloud offerings.
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VI Semester B.C.A. UG Degree Examination, September - 2020
WEB DESIGNING AND PROGRAMMING
(Regular)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

Write code snippets wherever required.

SECTION - A

1. Answer All the questions:

(10×2=20)

- Define WWW.
- What is Web application? Give example.
- Explain the term DOCTYPE.
- What is the function of CSS in Web design?
- Enumerate the differences between Java and JavaScript.
- Define with syntax - "the prompt box".
- Define Dynamic Object Model.
- How to access html element in JavaScript?
- Define cookies.
- What are the different types of errors in PHP?

SECTION - B

Answer any Four questions:

(4×5=20)

- What is scripting language? Explain its types. How scripting languages are different from Non-Scripting languages?
- Explain the structure of XHTML document.

[P.T.O.]



4. Define PHP. Write the steps to install PHP.
5. What is XML? Describe anatomy of an XML document.
6. Write a note on
 - a) Array in JavaScript
 - b) Control statements in JavaScript.

SECTION - C

Answer any **Four** questions:

(4×10=40)

7. Explain various selector forms of CSS with an example of each.
 8. What is Box Model? Explain various properties of Borders, Margins and Padding with examples.
 9. What is event handling? Explain various events, attributes and their related tags.
 10. What is dynamic document? Explain position elements and moving elements with example.
 11. Write a note on [w.r.t. PHP] :
 - a) String and Regular Expressions.
 - b) Type and type Conversion.
 - c) Adding PHP to HTML.
 - d) Sessions.
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VI Semester B.C.A. UG Examination, September - 2020

BUSINESS INTELLIGENCE

(Regular)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) All Sections are compulsory.
- 2) Draw diagrams wherever necessary.

SECTION - A

Answer **ALL** the questions.

(10×2=20)

1. a) What is meant by ERP?
b) List & Explain briefly any two challenges faced while storing unstructured data.
c) Describe the BI value chain.
d) Mention the advantages of OLTP system.
e) What is ODS?
f) What is Data Profiling?
g) Mention different types of dimension table.
h) List any four dimensions of data quality.
i) What are the features of good reporting?
j) What is Balanced Score Card?

SECTION - B

Answer any **FOUR** questions.

(4×5=20)

2. Explain core business process of an enterprise.
3. Explain the different types OLAP architectures.
4. What are the goals that a data warehouse meant to achieve?
5. Explain the data modelling techniques.
6. What are Dashboards? How is balanced score card different from an enterprise dashboard?

[P.T.O.]

**SECTION - C**Answer any **FOUR** questions.**(4×10=40)**

7. Explain the malcolm Baldrige criteria for performance excellence framework with a neat diagram.
 8.
 - a) What is the single version of truth in BI? Explain with the help of an example.
 - b) State the difference in data models for OLTP & OLAP.
 9. Describe the business component framework with diagram.
 10.
 - a) What is data integration? Explain the data integration techniques.
 - b) What is fact table? Explain the different types of facts.
 11. Explain the various types of report Layouts.
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VI Semester B.C.A. 3 Degree Examination, September - 2020**SOFTWARE PRACTICES & TESTING****(Repeater)****Time : 3 Hours****Maximum Marks : 80****SECTION - A**Answer any **TEN** of the following.**(10×2=20)**

1. a) What is Testing?
- b) Define waterfall model.
- c) What is top up integration?
- d) Write difference between Verification & Validation.
- e) What is Regression Testing?
- f) Define accessibility Testing.
- g) List points of senior management.
- h) What is software automation?
- i) Define TCDB.
- j) Expand CTU.
- k) What is aesthetics testing?
- l) What is Code Coverage?

SECTION - BAnswer any **four** of the following.**(4×5=20)**

2. Explain Principles of SDLC.
3. Explain defect bash.
4. Explain quality factors in usability Testing.

[P.T.O.]



5. Explain Career Paths for Testing professionals.
6. Explain skills needed for automation.
7. Explain use-case diagrams.

SECTION - C

Answer any **four** of the following.

(4×10=40)

8. Explain how to do black box Testing.
 9. Explain differences between functional & non functional Testing.
 10. Explain Scope of automation.
 11. Explain perceptions & misconceptions about Testing.
 12. Explain methodology for performance Testing.
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VI Semester B.C.A. 3 U.G. Degree Examination, September -2020

BUSINESS INTELLIGENCE

(Repeater)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

- i) *Answer all parts.*
- ii) *Draw neat diagrams wherever necessary.*
- iii) *Write question numbers correctly.*

PART - A

Answer any **TEN** of the following.

(10×2=20)

1.
 - a) - What is Groupware? Give any two Examples of groupware.
 - b) Expand the terms ERP and MIS.
 - c) List the sources of semi structured data.
 - d) Give two examples of queries that an OLAP System can process.
 - e) Define BI.
 - f) List any four dimensions of data quality.
 - g) What is a metric? Give examples.
 - h) What are the advantages of OLTP Systems?
 - i) Differentiate between casual and power user's.
 - j) What is Data mart?
 - k) What are chart reports?
 - l) What is balanced score card?

P.T.O.

**PART - B**

Answer any **four** of the following.

(4×5=20)

2. Think about your college/University. What according to you are the applications that can be automated? Explain giving suitable examples.
3. Write the difference between semi-structured and structured data.
4. Explain MOLAP, its advantages and disadvantages.
5. Explain types of decisions supported by BI.
6. Describe the Ralph Kimball's approach of building a data warehouse.
7. Explain any two report layout types.

PART - C

Answer any **four** of the following.

(4×10=40)

8.
 - a) Explain the characteristics of Unstructured data and list the sources of Unstructured data.
 - b) Explain the solutions to storage challenges of Unstructured data.
 9. Compare and contrast OLTP and OLAP Systems.
 10.
 - a) Differentiate between ERP and BI.
 - b) Explain the goals of Data warehouse.
 11. Write short notes on the following
 - i) Star schema.
 - ii) Snowflake schema.
 12. What are enterprise reports? Explain the features of good report.
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VI Semester BCA UG Examination, September -2020

J2EE

(Repeater)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates : All Sections are Compulsory.

SECTION - A

Answer any **TEN** of the following:

(10×2=20)

1. a) Differentiate between swing and awt.
- b) List any two constructors of JLabel class.
- c) What is the difference between invoke and wait and InvokeLater?
- d) What is connection pooling in JDBC?
- e) Define servlet.
- f) Differentiate between execute, execute Query and execute Update.
- g) What is metadata? Mention two types of it.
- h) Name the two servlet API packages..
- i) What is cookie?
- j) Define socket. How do you create a server socket?.
- k) What is Enterprise Java Beans (EJB)?.
- l) What are the advantages of JSP over servlets?

SECTION - B

Answer any **FOUR** of the following:

(4×5=20)

2. Write a note on JAR file.
3. Explain InetAddress class and its commonly used methods.

[P.T.O.]



4. Explain basic JSP tags with example.
5. Explain in brief different types of JDBC drivers.
6. Write a program to demonstrate a JLabel with an Image and text.
7. What is swing? Explain two key features of swing.

SECTION - C

Answer any **FOUR** of the following

(4×10=40)

8. a) Write a Java program containing a ComboBox displaying the entries "India", "France", "Israel" and "Russia". **(5+5)**
b) Explain JDBC process to connect to a database.
 9. a) Write a java servlet program to accept username and password using HTML file and display it using servlet. **(5+5)**
b) Discuss the RMI concept.
 10. a) Explain in brief servlet interface and its methods. **(5+5)**
b) Explain JDBC exceptions.
 11. a) Write a note on URL class. **(5+5)**
b) Briefly explain the session bean class.
 12. a) Explain JTabbedPane. **(5+5)**
b) Write a java JSP program to print 10 even and 10 odd numbers.
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