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B.B.A. (C.A.) (VI Sem.) EXAMINATION, 2019
601 : ADVANCED WEB TECHNOLOGIES
(2013 PATTERN)

Time : Three Hours

Maximum Marks : 80

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

1. Attempt the following (any *eight*) : [8×2=16]
 - (a) How to call parent class constructor in php. (Write its Syntax) ?
 - (b) What is \$http_response_header ?
 - (c) Enlist all methods used by PHP for database connectivity ?
 - (d) Enlist the methods of simple XML extensions.
 - (e) Enlist the elements of SOAP message.
 - (f) Enlist different attributes for readystate.
 - (g) What is Web Services ?
 - (h) Enlist the methods of XML parser.
 - (i) What is SetCookie() function ?
 - (j) Which is special function provided by PHP to define constructor ?

2. Attempt the following (any *four*) : [4×4=16]
 - (a) What is method overloading ? Explain it with the help of example.
 - (b) How to handle file upload in php ?
 - (c) What is PEAR DB ? Explain with the help of program.
 - (d) To create form that accept the user details. Write php Program to capitalize of first letter of each name and check user e-mail address contain @ symbol.
 - (e) Write PHP script to demonstrate the concept of introspection for examining object.

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3. Attempt the following (any *four*) : [4×4=16]
- (a) What is DOM ? Explain it with the help of program.
 - (b) Explain how Ajax works ?
 - (c) Create student registration form and displays details in the next page. (Use sticky form concept).
 - (d) Write a PHP script to upload the file and display its information (Use \$_FILES).
 - (e) Create a XML file which gives details of books available in “ABC Bookstore” from the following categories :
 - (1) Technical
 - (2) Cooking
 - (3) Yoga
4. Attempt the following (any *four*) : [4×4=16]
- (a) Explain with example how to connect database using PHP and Ajax.
 - (b) What is WSDL ? Explain it.
 - (c) Explain XML parser.
 - (d) Create student table as follows :
Student (Sno, Sname, Per).
Write Ajax program to select the student name and print the selected student's details.
 - (e) Write Ajax Program to Print Movie details by selecting and Actor's name.
Create table MOVIE and ACTOR as follows with 1:M cardinality.
MOVIE (mno, mname, release_) and ACTOR (ano, aname).
5. Write short notes on (any *four*) : [4×4=16]
- (a) Serialization
 - (b) Redirection
 - (c) Destructor
 - (d) Header function
 - (e) Link XML to CSS.

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[5517]-602

B.B.A. (C.A.) (VI Sem.) EXAMINATION, 2019

602 : ADVANCE JAVA

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 80

- N.B. :—**
- (i) All questions are compulsory.
 - (ii) Figures to the right indicate full marks.
 - (iii) Answer of sub-questions of each question should be attempted at one place. It should not be written separately.

1. Answer the following (any *eight*) : [8×2=16]
- (i) What is jdbc-api ?
 - (ii) What is Servlet Config ?
 - (iii) What is accept() method in networking ?
 - (iv) What is sleep() method ?
 - (v) Give syntax of loading Driver Manager.
 - (vi) Define Port.
 - (vii) What is yield() method ?
 - (viii) What is Stub and skeleton ?
 - (ix) What is Scriptlet tag ?
 - (x) What is builder tool ?
2. Answer the following (any *four*) : [4×4=16]
- (a) Explain difference between Statements and Prepared Statement.
 - (b) What is Thread ? Explain different ways to implement thread in program.
 - (c) Explain RMI Architecture with a suitable diagram.
 - (d) Write a JDBC Program to delete the record of employee using command line argument.
 - (e) Write a multithreading program in Java using Runnable interface to draw temple flag on an applet container.

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3. Answer the following (any *four*) : [4×4=16]

- (a) Explain various components of JSP ?
- (b) What is JAR file ? Explain steps to create it.
- (c) Explain Inter Thread Communication in Multithreading.
- (d) Write a JDBC Program to Insert the record into patient table (use prepared Statement).
- (e) Write a JSP Program to accept user and check whether it is prime or not.

4. Answer the following (any *four*) : [4×4=16]

- (a) Explain different types of servlet with an example.
- (b) Explain Socket and Server Socket.
- (c) What is Beans ? Explain its advantages in brief.
- (d) Write a Multithreading program in Java to display all the alphabets from A to Z after 3 seconds.
- (e) Explain JDBC Drivers with a suitable diagram.

5. Attempt any *two* : [2×8=16]

- (a) Write a Socket program in Java to check whether given file is present on server or not, If it is present then display its content on the server's machine otherwise display error message.

Or

Write a Java program to accept file name from user, check if it is available on server machine or not, if it is available the display its contents on client machine otherwise display the message "File Not Found".

- (b) Write a JSP script to check whether given mail ID is valid or not. (Mail ID should contain one @ symbol and at least one Dot(.) symbol).

Or

Write a Servlet program to display the details of employee in tabular format. Employee table structure (eno, ename, sal, design)

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T.Y. B.B.A. (C.A.)/T.Y. B.C.A. (VI Semester) EXAMINATION, 2019

603 : RECENT TRENDS IN IT

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 80

N.B. :— (i) *All questions are compulsory.*

(ii) *All questions carry equal marks.*

1. Attempt the following : [8×2=16]

- (a) Define the term Indicator.
- (b) Define Varying Arrays.
- (c) Define the term OLAP.
- (d) Explain the term Cipher Text.
- (e) List different models for cloud computing.
- (f) What is Data Fragmentation ?
- (g) List the types of software prototyping.
- (h) Explain the term Data Mining.
- (i) Define the term cryptography.
- (j) Explain the term soft computing.

2. Attempt the following (any *four*) : [4×4=16]

- (a) Describe the role of requirement analysis in software process.
- (b) Explain naming conventions for objects.

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- (c) Describe Architecture of Data Warehouse in detail.
- (d) Explain message digest in cryptography.
- (e) What is cloud computing ? Describe its technological features in detail.

3. Attempt the following (any *four*) : [4×4=16]

- (a) What is Green Computing ? Describe the steps to take towards Green Computing.
- (b) Explain the following terms :
 - (i) Data Encryption Standard
 - (ii) Advance Encryption Standard.
- (c) Explain Data Cleaning ? What are the tools of Data Cleaning ?
- (d) Explain in detail, the factors affecting Software Quality.
- (e) What is Software Management ? Explain its types.

4. Attempt the following (any *four*) : [4×4=16]

- (a) Explain data pre-processing techniques in detail.
- (b) Explain symmetric key signature and public key signature.
- (c) Distinguish between Soft computing and Hard computing.
- (d) State the difference between stand alone *verses* distributed database.
- (e) What are the current and future trends in mobile computing ?

5. Attempt the following (any *four*) : [4×4=16]

- (a) Explain Data Mining process in detail.
- (b) Define the terms :
 - (i) Active Attack and
 - (ii) Passive Attack.
- (c) Explain the types of cryptography in detail.
- (d) Write a short note on 'One-Time-Pad'.
- (e) Explain the applications of Data Warehousing in detail.

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[5517]-604

B.C.A. (Sem. VI) EXAMINATION, 2019

604 : SOFTWARE TESTING

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 80

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

1. Attempt any *eight* of the following : [8×2=16]

- (i) What is the difference between Tester and Debugger ?
- (ii) State software Testing Principles.
- (iii) Define Stubs and Drivers.
- (iv) What are the disadvantages of Big Bang Approach.
- (v) What are the primary objectives of GUI Testing ?
- (vi) What are the two main types of real-time system ?
- (vii) When do we need Regression Testing ?
- (viii) State different types of performance testing.
- (ix) What is test case ?
- (x) What is the use of Boundary value analysis testing technique ?

2. Attempt any *four* of the following : [4×4=16]

- (i) Explain Equivalence Partitioning in detail.
- (ii) Explain smoke testing in detail.
- (iii) Differentiate between Load and Stress testing.
- (iv) Explain testing of client-server architecture.
- (v) Explain gray box testing.

P.T.O.

3. Attempt any *four* of the following : [4×4=16]
- (i) Explain STLC (Soft, Test, Life-Cycle) in detail.
 - (ii) Explain Levels of Testing.
 - (iii) Explain Testing Documentation and help facilities.
 - (iv) Explain Validation Techniques.
 - (v) Explain Junit as a Testing tool.
4. Attempt any *four* of the following : [4×4=16]
- (i) Explain types of Acceptance Testing.
 - (ii) Differentiate between Alpha and Beta Testing.
 - (iii) Explain steps in Real-Time system Testing.
 - (iv) What is Unit Testing ? Explain advantages.
 - (v) Explain Load Runner testing tool.
5. Write short notes on (any *four*) : [4×4=16]
- (i) Agile Testing.
 - (ii) Top-Down and Bottom-up integration
 - (iii) Regression Testing
 - (iv) Testing Vs Debugging.
 - (v) Win Runner.