

Total No. of Questions—5]

[Total No. of Printed Pages—4

Seat No.	
-------------	--

**[5417]-601**

**B.B.A. (C.A.) (VI Semester) EXAMINATION, 2018**

**601 : ADVANCED WEB TECHNOLOGIES**

**(2013 PATTERN)**

**Time : Three Hours**

**Maximum Marks : 80**

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

(ii) Figures are required wherever necessary.

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

- (a) Which *two* functions are used for serialization ?
- (b) What is session-register() function ?
- (c) Which are the databases supported by PHP ?
- (d) What is the Simple XML Extension ?
- (e) Enlist the types of web services.
- (f) Different way to display output in JavaScript.
- (g) What is SOAP ?
- (h) Enlist the method of DOM parser.
- (i) Enlist the elements of \$\_FILE array.
- (j) Give any *two* applications of AJAX.

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

- (a) Define interface with the help of example.

P.T.O.

- (b) Explain how HTTP actually works.
- (c) Explain the following MYSQL functions with the help of example :
  - (i) mysql – open()
  - (ii) mysql – select\_db()
  - (iii) mysql – query()
  - (iv) mysql – close()
- (d) Write a PHP program to accept two strings from user and check whether entered strings are matching or not. (Use sticky form concept)
- (e) Write a PHP script to accept username and password. If in the first three chances, username and password entered is correct, then display second form, otherwise display error message.

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

- (a) Explain simpleXML extension with the help of an example.
- (b) Explain alert(), prompt() and confirm() function with example.
- (c) Write a simple PHP program which implements Ajax for addition of two numbers.
- (d) Write a PHP program to create a simple calculator that can accept two numbers and perform operations like add, subtract, multiplication and divide (using self processing form).

- (e) Write a script to create XML file named  
"Course.xml"

```
<course>
    <computer science>
        <student name> ..... <|student name>
        <class name> ..... <|class name>
        <percentage> ..... <|percentage>
    <|computer science>
<|course>
```

Store the details of 3 students who are in TYBCA.

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

- (a) Give an example of PHP and Ajax application for searching.  
(b) What is SOAP ? Explain different elements of SOAP.  
(c) Explain how to link CSS to XML.  
(d) Create employee table as follows :

BUS (bno, bname, source, designation)

Write Ajax program to select the bus name and print the selected bus details.

- (e) Consider the following relational database :

Project (p\_group\_No, Project\_Title)

Student (seatno, Name, Class, P\_group\_No)

Write a PHP script to accept project title and display list of students those who are working in particular project.

**5.** Write short notes on (any *four*) :

[4×4=16]

- (a) Introspection
- (b) XML parser
- (c) Constructor
- (d) XML document structure
- (e) WSDL.

Total No. of Questions—5]

[Total No. of Printed Pages—3

<b>Seat No.</b>	
---------------------	--

**[5417]-602**

**B.B.A. (C.A.) (VI Semester) EXAMINATION, 2018**

**602 : ADVANCED 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]

- (a) What is difference between sleep() and interrupt() method ?
- (b) What is ThreadGroup class ?
- (c) What are the different types of servlet ?
- (d) What is jdbc-api ?
- (e) What is use accept() method ?
- (f) What is introspection ?
- (g) What is ServletConfig ?
- (h) Which type of Exception will be thrown by forName() method ?
- (i) What is use of getLocalHost()method ?
- (j) What is use of DriverManager class ?

P.T.O.

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

- (a) Explain life cycle of servlet.
- (b) What is jar file ? How is it created ?
- (c) Explain Synchronization with an example.
- (d) Write a java program to update the salary of given employee and display updated details. Assume emp (eno, ename, sal) table is already created.
- (e) Write a socket program to display date and time of server's machine on client machine.

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

- (a) Explain the components of JSP.
- (b) Write a java program for bouncing ball.
- (c) Differentiate between Statement and PreparedStatement.
- (d) Explain architecture of RMI.
- (e) Write a java program to display all the alphabets from 'A' to 'Z' after every 3 seconds.

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

- (a) Explain life cycle of Thread.
- (b) Write a JSP program to display all the prime numbers between 1 to  $n$  in red color.
- (c) What is bean ? Explain its advantages in brief.
- (d) Explain JDBC process in detail.
- (e) Write a java program for drawing flag.

5. Attempt the following : [2×8=16]

- (a) Write a socket program for standalone chatting application. Assume Client and Server are on different machines.

*Or*

Write a java program to accept file name from a user, check it is available on server machine or not, if it is available then display its contents on client machine otherwise display the message "File Not Found". Assume Client and server are on different machines.

- (b) Write servlet program to display the details of employee on browser in tabular format. Assume emp(eno, ename, sal, designation) table is already created.

*Or*

Write a servlet program to accept the details of student (rno, sname, per, class) and store it into the database. (Use Prepared Statement Interface).

Total No. of Questions—5]

[Total No. of Printed Pages—3

Seat No.	
-------------	--

**[5417]-603**

**T.Y. B.B.A. (CA)/T.Y. B.C.A. (VI Semester) EXAMINATION, 2018**

**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 (any *eight*) :**

**[8×2=16]**

- (a) Define the term Metric.
- (b) Explain the terms :
  - (i) Server
  - (ii) Client.
- (c) Define Datawarehouse.
- (d) Define the term plain text.
- (e) Explain cloud computing.
- (f) List out the methods of performing Database Replication.
- (g) What is software prototyping ?
- (h) What is Data cube ?
- (i) What is Public key ?
- (j) Define the term mobile computing.

**P.T.O.**



2. Attempt any *four* of the following : [4×4=16]
- (a) Explain Software Measurement in Software Process.
  - (b) Explain Client/Server Architecture in brief.
  - (c) Explain Multidimensional Data Model.
  - (d) Define Cryptography. Explain Digital signature in brief.
  - (e) Describe cloud computing models in detail.
3. Attempt any *four* of the following : [4×4=16]
- (a) What is green computing ? Explain needs of green computing.
  - (b) Which are the properties of Message Digest ?
  - (c) Define Data Mining. Explain functionalities of Data Mining.
  - (d) Explain types of fragmentation in distributed database.
  - (e) Differentiate between Formal communication and Informal communication.
4. Attempt any *four* of the following : [4×4=16]
- (a) Explain Data Integration and Transformation.
  - (b) What are the other public key algorithms ?
  - (c) What is soft computing ? Describe characteristics of soft computing.
  - (d) Explain Abstract Data types.
  - (e) What are the current and future trends in mobile computing ?
5. Attempt any *four* of the following : [4×4=16]
- (a) Explain Data Cube Technology in detail.

- (b) Define the terms :
  - (i) Active Attack
  - (ii) Passive Attack.
- (c) Write a short note on One Time Pad.
- (d) Distinguish between Soft Computing and Hard Computing.
- (e) Explain applications of Datawarehouse.

Total No. of Questions—5]

[Total No. of Printed Pages—2

Seat No.	
-------------	--

**[5417]-604**

**B.C.A. (VI Semester) EXAMINATION, 2018**

**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]

- (1) Explain the term performance testing.
- (2) Define Measure in S/w Metrics.
- (3) What is Debugging ?
- (4) State the need of automation.
- (5) What is test plan ?
- (6) Explain sandwich approach.
- (7) What are **3** formulae for calculating cyclomatic complexity ?
- (8) Give examples of Regression testing.
- (9) What is software testing ?
- (10) Define Big Bang Approach.

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

- (1) Explain all testing principles in detail.
- (2) Explain difference between verification and validation.

P.T.O.

- (3) Explain Apache jmeter tool.
- (4) Explain Boundary value analysis.
- (5) Explain testing cycle with diagram.

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

- (1) Explain Testing-Fundamentals in detail.
- (2) State and explain difference between load and stress testing.
- (3) Explain the testing for real-time system in detail.
- (4) Explain qualities of good test case design.
- (5) Explain V-V Model of testing in detail.

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

- (1) Explain difference between Alpha and Beta-testing.
- (2) Explain Top-down approach of integration testing with diagram.
- (3) Explain objective and types of GUI.
- (4) Explain Acceptance testing in detail.
- (5) Explain equivalence class partitioning with example.

**5.** Write short notes on any *four* of the following : [4×4=16]

- (1) Agile testing
- (2) Rational Robot
- (3) Load-Runner
- (4) Gray-box testing
- (5) System testing.