[5954]-601

T.Y.B.B.A. (C.A.)

RECENT TRENDS IN INFORMATION TECHNOLOGY

(2019 Pattern) (Semester - VI) (CA-601)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1) *Questions : Total Number of Questions are 5 (Five).*
2) *Total Marks assigned: 70*
3) *Time assigned: 2½ Hours.*

Q1) **Attempt any EIGHT of the following (Out of TEN) :**   **[8 × 2 = 16]**

    a)   What is artificial intelligence?

    b)   Explain component of spark.

    c)   What is data mart?

    d)   List any two applications of data warehouse.

    e)   Define OLTP.

    f)   Define ETL tools.

    g)   Define Data mining.

    h)   What is a Ridge in artificial intelligence?

    i)   What is natural language processing?

    j)   Define Meta data.

Q2) **Attempt any FOUR of the following (Out of FIVE) :**   **[4 × 4 = 16]**

    a)   Describe the Architecture of data warehouse.

    b)   Explain briefly the various components of spark.

    c)   Explain the three important artificial intelligence techniques.

d) What are the disadvantages of Depth First Search?

e) What are the difference between OLTP and OLAP?

Q3) **Attempt any FOUR of the following (Out of FIVE) :** **[4 × 4 = 16]**

a) Explain the various search and control strategies in artificial intelligence.

b) Describe technique of data mining.

c) Explain any four uses of data warehouse.

d) What is the philosophy of artificial intelligence?

e) Write down the steps of KDD process.

Q4) **Attempt any FOUR of the following (Out of FIVE) :** **[4 × 4 = 16]**

a) What is a heuristic function?

b) What is multidimensional data model? Explain.

c) Define data cleaning. Describe various method of data cleaning.

d) Explain briefly with solution Missionaries and Cannibals Problem Statement.

e) Explain Graph mining in brief

Q5) **Write a short note on Any TWO of the following (Out of THREE) :**
[2 × 3 = 6]

a) State the 'Water Jug Problem' in artificial intelligence with the help of diagrams and propose a solution to the problem.

b) Data mining task.

c) ROLAP and HOLAP.

✳ ✳ ✳

[5954]-601 2

[5954]-602

B.B.A. (C.A.)

CA-602 : Software Testing

(2019 Pattern) (Semester - VI)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

    1)   *All questions are compulsory.*

    2)   *Neat diagram must be drawn wherever necessary.*

    3)   *Figures to the right indicate full marks.*

Q1) Attempt any EIGHT of the following (out of TEN) :   **[8 × 2 = 16]**

    a)   What is Software Testing?

    b)   What is Static testing?

    c)   State the advantages of manual testing.

    d)   What are formulae for calculating Cyclomatic complexity?

    e)   What is Gray-box testing?

    f)   Define validation Testing.

    g)   What is Debugging?

    h)   Explain terms- Error, Fault and Failure.

    i)   Define regression testing.

    j)   What is software metric?

Q2) Attempt any FOUR of the following (out of FIVE) :   **[4 × 4 = 16]**

    a)   Write difference between verification and validation.

    b)   Explain Software testing life cycle with diagram.

    c)   Explain Boundary-Value analysis in details.

    d)   Explain Acceptance testing in details.

    e)   Explain Test Case Design along with example.

Q3) Attempt any FOUR of the following (out of FIVE) :   [4 × 4 = 16]

   a)   Explain any four testing principles in detail.

   b)   Explain white box testing and its techniques.

   c)   Explain Sandwich and Big-Bang approach of Integration testing.

   d)   Explain load and Smoke testing in detail.

   e)   Write difference between Static and Dynamic testing.

Q4) Attempt any FOUR of the following (out of FIVE) :   [4 × 4 = 16]

   a)   Explain test case design for the login process.

   b)   Stub and Driver concept in Unit testing.

   c)   Explain GUI testing in details.

   d)   What is difference between client/server and web-Based testing?

   e)   Calculate the cyclometric complexity of a code which accepts 3 integer values and print the highest and lowest value.

Q5) Write a short note on Any TWO of the following (out of THREE) :
                                                              [2 × 3 = 6]

   a)   Testing for Real-Time system.

   b)   Stub and Driver concept in Unit testing.

   c)   Load Runner

⌘⌘⌘

[5954]-603

T.Y. B.B.A. (CA)

CA - 603 : ADVANCED JAVA

(2019 Pattern) (Semester - VI)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) Answer the following (any eight) :   **[8×2=16]**

a) Write down 2 methods of connection interface.

b) What is sleep() method in multithreading.

c) What is the method to set the thread priority.

d) Write down 2 classes used in socket programming.

e) What is IP address.

f) What is doGet () method of servlet?

g) What are the parameters of service() method of servlet.

h) What is JSP?

i) What is Hibernate?

j) What is getConnection method?

Q2) Attempt any four of the following.   **[4×4=16]**

a) What is statement? Explain the types of statements in JDBC.

b) Explain thread life cycle with diagram.

c) What are the implicit objects in JSP. Explain any 4.

d) Write down the difference between doGet() and doPost()method.

e) Write a java program to count number of records in a table.

Q3) Attempt any four of the following. [4×4=16]

    a) Explain Architecture of libernate.

    b) What is Result set interface in JDBC? Explain methods in Resultset interface.

    c) Explain JSP life cycle with diagram.

    d) Write a java program in to print from 100 to 1. (use sleep() method)

    e) Write a java program to create table student with attributes Rno, Sname, Per.

Q4) Attempt any four of the following. [4×4=16]

    a) What are the states of the object in hibernate?

    b) What is session tracking? What are the different ways of session tracking in servlet.

    c) What is thread Priority? How to set the thread priorities?

    d) Write a JSP application to accept a user name and greet the user.

    e) Write a java program to display IP address of a machine.

Q5) Write a short note on any two of the following. [2×3=6]

    a) Connection interface.

    b) Runnable interface.

    c) Thread synchronization.

○○○○

[5954]-604

T.Y. B.B.A. (CA)

CA-604 : ANDROID PROGRAMMING

(2019 Pattern) (CBCS) (Semester - VI)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1)   All questions are compulsory.

2)   Draw neat diagrams wherever necessary.

Q1) **Answer the following questions (Any 8) :**   **[8 × 2 = 16]**

a)   What is Android?

b)   Enlist android versions.

c)   Define user interface.

d)   What is Date Picker Dialog?

e)   Describe Array Adapter.

f)   What *ax* the layers present in the android architecture?

g)   What is cursor?

h)   What is Toast?

i)   What is Android ISON?

j)   What is Text Fields?

Q2) **Attempt the following (Any 4) :** [4 × 4 = 16]

    a)   Describe activity Life cycle.

    b)   What is spinner? How to create it? Explain with Example.

    c)   How to create database in SQLite? Explain with Example.

    d)   Define Asyntask? How it works? Explain with Example.

    e)   Describe Bounded and Unbounded service in detail.

Q3) **Answer the following (Any 4) :** [4 × 4 = 16]

    a)   Create linear layout for student registration page in Android with its component properties.

    b)   Create an Android application that demonstrate Time Picker.

    c)   Write a program to create the custom dialog in Android.

    d)   Write a program to implement map in Android.

    e)   Create an Android App with login screen on successful login, gives message go to next activity [Without using Database and use Table layout].

Q4) **Answer the following (Any 4) :** [4 × 4 = 16]

    a)   What is Dialog Box? Explain with example.

    b)   Discuss about views and view groups.

    c)   Create a simple application, which read a positive number from the user and display it factorial value in another activity.

    d)   What is Content Providers? Explain with example.

    e)   Develop a simple calculator using table layout.

Q5) **Write a short note of the following (Any 2) :** [2 × 3 = 6]

    a)   List view.

    b)   Google Maps.

    c)   Intent.

❀ ❀ ❀

[5954]-605

B.B.A. (Computer Application)

CA - 604 : DOT NET FRAMEWORK

(2019 Pattern) (Semester - VI)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates :

1) *All questions are compulsory.*

2) *Neat diagrams must be drawn wherever necessary.*

3) *Figures to the right indicate full marks.*

Q1) **Attempt any Eight of the following (out of Ten) :** **[8 × 2 = 16]**

a) What is CTS?

b) State any two advantages of .Net.

c) What is Event Driven Programming?

d) Explain difference between menu and popup menu in .Net.

e) List any two properties of Radio Button Control.

f) What do you mean by value type and Reference type?

g) What is boxing in C#?

h) What is mean by ADO.Net?

i) Enlist any four data types used in .Net?

j) What is use of 'this' keyword in C#?

Q2) **Attempt any Four of the following (out of Five) :** **[4 × 4 = 16]**

a) Explain ASP .NET page life cycle in detail.

b) What are the classes in ADO.Net. Explain in detail.

c) How to create menus in VB.Net?

d) Enlist and explain various objectives of .Net frameworks.

e) State and explain various statements used in VB.Net.

P.T.O.

Q3) **Attempt any Four of the following (out of Five) :** [4 × 4 = 16]

   a)   Write a program in C# for multiplication of two numbers.

   b)   Write a program in C# to calculate area of a square.

   c)   Write a VB .NET program to check given number is palindrome or not.

   d)   Write a VB.NET program to print Yesterday's date on screen.

   e)   Write a VB.NET program to display Studentid. Student Name and student course and student fees.

Q4) **Attempt any Four of the following (out of Five) :** [4 × 4 = 16]

   a)   What are the HTML controls? Explain.

   b)   Write steps to connect to database using ADO.Net.

   c)   Explain Common Type Systems (CTS) and Common Language Specification (CLS).

   d)   Write a program to show list of doctors visiting to "Sahyadri Multispecialty Hospital".

   e)   Write a program to find prime numbers bet^n 2 to 20.

Q5) **Write a short note on Any Two of the following. (out of Three)**
[2 × 3 = 6]

   a)   Inheritance.

   b)   ASP.Net server controls.

   c)   Constructor and Destructor.

▽ ▽ ▽ ▽