[5803]-601

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

CA-601 : RECENT TRENDS IN INFORMATION TECHNOLOGY

(2019 CBCS 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) Attempt any Eight of the following (Out of Ten) :   **[8 × 2 = 16]**

    a)   What is OLAP?

    b)   Define 'State Space' in artificial intelligence.

    c)   What is Data frame?

    d)   What is RDD?

    e)   What is Data Mart?

    f)   Define ETL tools.

    g)   What is a Plateau in artificialintelligence?

    h)   Define OLTP.

    i)   Which language is not supported by Spark?

    j)   Define Ridge.

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

    a)   What are components of spark? Explain.

    b)   Explain Architecture of Data Warehouse.

    c)   What is the philosophy of artificial intelligence?

    d)   Describe technique of data mining.

    e)   Write the advantages of Bidirectional Search.

P.T.O.

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

   a) What is data cleaning? Describe various method of data cleaning.

   b) Explain any two Types of OLAP Servers.

   c) Elaborate the Spark Installation Steps?

   d) Explain Breadth First Search technique of artificial intelligence.

   e) Write any four applications of Data Mining.

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

   a) Differentiate between MOLAP and HOLAP

   b) What is the Missionaries and Cannibals Problem Statement? Write its solution.

   c) How is Apache Spark different from MapReduce?

   d) What is Data warehouse? Describe any two applications in brief.

   e) Write in detail the various blind search techniques in artificial intelligence.

Q5) Write a short notes on Any Two of the following (Out of Three) :[2 × 3 = 6]

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

   b) Action

   c) Snowflake Schema

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

CA-602 : SOFTWARE TESTING

(2019 CBCS 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.*

    3)   *Neat diagram must be drawn whenever necessary.*

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

    a)   Explain terms - Error, Fault and Failure.

    b)   Define software testing.

    c)   What is structural testing?

    d)   How to calculating cyclomatic complexity?

    e)   What is verification testing?

    f)   Explain types of Acceptance testing?

    g)   Define software metrics?

    h)   What is user documentation testing?

    i)   Define the term SQA.

    j)   What is a test case design?

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

    a)   What is debugging? Explain with its phases.

    b)   Explain in details verification and validation.

    c)   What is Black - Box testing? Explain with its techniques.

    d)   Write difference between static testing and Dynamic testing.

    e)   Explain GUI testing in details.

P.T.O.

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

    a)   What is difference between client/server testing and web - based testing?

    b)   Explain five different level of capability maturity model (CMM).

    c)   Explain Acceptance testing in details.

    d)   Explain Top - Down and Bottom - UP integration testing in details.

    e)   Explain term unit testing.

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

    a)   Explain testing principles in details.

    b)   Explain Load testing and stress testing in details.

    c)   Write difference between Quality Assurance (QA) and Quality control (QC).

    d)   Explain test case design for login process.

    e)   Explain software testing life cycle (STLC) in details.

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

    a)   Load Runner.

    b)   Testing for Real - Time system

    c)   Goal - Question - Metric Model (GQM).

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

a) What is the use of cookies?

b) What is the use of Runnable interface?

c) Explain thread priority.

d) What is the use of HQL?

e) What are the directives in JSP?

f) What is networking?

g) Write the method for creating connection?

h) What is the yield ( ) method?

i) What is the use of socket class?

j) What is servlet?

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

a) Explain in details directives in JSP.

b) Explain inter thread communication with an example.

c) Differentiate between statement and prepared statement interface.

d) Explain the life cycle of thread.

e) Explain methods of serversocket class with syntax.

P.T.O.

Q3) Attempt any Four of the following : [4 × 4 = 16]

   a) What is the difference between execute ( ), executeQuery ( ) and executeupdate ( )?

   b) Explain an architecture of hibernate?

   c) Explain methods of socket class with example.

   d) Write a JSP program to accept Name & age of voter and check whether he/she is eligible for voting or not.

   e) Write a JDBC program to delete the records of employees whose names are starting with 'A' character.

Q4) Attempt any Four of the following : [4 × 4 = 16]

   a) Write advantages and disadvantages of spring.

   b) Explain JSP tags with example.

   c) What are the advantages and disadvantages of multithreading?

   d) Write servlet program to accept two numbers from user and print addition of that in blue colour.

   e) Write a JDBC program to display the details of employees (eno, ename, department, sal) whose department is 'Computer Application'.

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

   a) Run method

   b) Statement interface

   c) HttpServlet.

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

CA-604 : ANDROID PROGRAMMING

(2019 Pattern) (Semester - VI)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

  1) *All questions are compulsory.*

  2) *Draw neat diagrams wherever necessary.*

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

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

  a) The Android _____ provides you the API libraries and developer tools necessary to build, test, and debug apps for android.

    i)   JDK   ii)   SDK

    iii) ADT   iv)   All of the mentioned

  b) _____ dictates the UI and handles the user interaction to the smart phone screen.

    i)   Intents   ii)   Fragments

    iii) Activities   iv)   None of the mentioned

  c) _____ is a drop-down list that allows users to select one value from a set.

    i)   CheckBox   ii)   RadioButton

    iii) Spinner   iv)   All of the mentioned

  d) _____ is a specialized view switcher which will provide a smooth transition animation effect to the images while switching from one image to another.

    i)   ImageView   ii)   ImageSwitcher

    iii) Both i) and ii)   iv)   All of the mentioned

P.T.O.

e) How many threads are there in AsyncTask android?

   i)   Only one

   ii) Three

   iii) AsyncTask doesn't have thread

   iv) Two

f) _____ is used to perform database operations on Android such as storing, manipulating or retrieving persistent data from the database.

   i)   MySQL   ii) SQL

   iii) SQLite   iv) All of the mentioned

g) Cursor navigation methods include _____.

   i)   moveToFirst   ii) moveToNext

   iii) Both a) and b)   iv) none of the mentioned

h) _____ identifies locations on the map and used to notify the user of locations on a map and take the form of either a standard or custom icon.

   i)   Maps   ii) API keys

   iii) Markers   iv) None of the mentioned

i) To send SMS messages programmatically, which class is used?

   i)   Mms   ii) SmsManager

   iii) Both a) and b)   iv) None of the mentioned

j) The _____ arranges views in a single column or a single row. Child views can be arranged either vertically or horizontally.

   i)   FrameLayout   ii) AbsoluteLayout

   iii) LinearLayout   iv) None of the mentioned

Q2) Attempt any Four of the following :   **[4 × 4 = 16]**
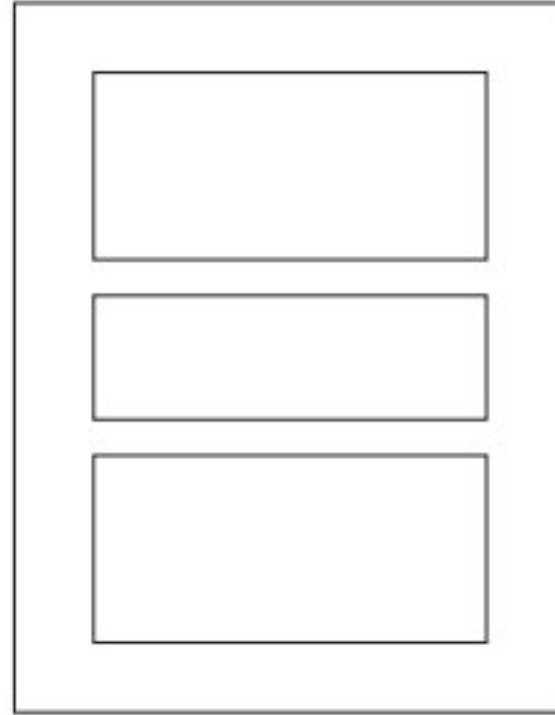
   a) What is Activity? With the help of diagram describe activity life cycle.

   b) What is ToggleButton? How to create it? Explain with example.

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

   d) Define Google Map. How to change views in Google Maps? Explain with example.
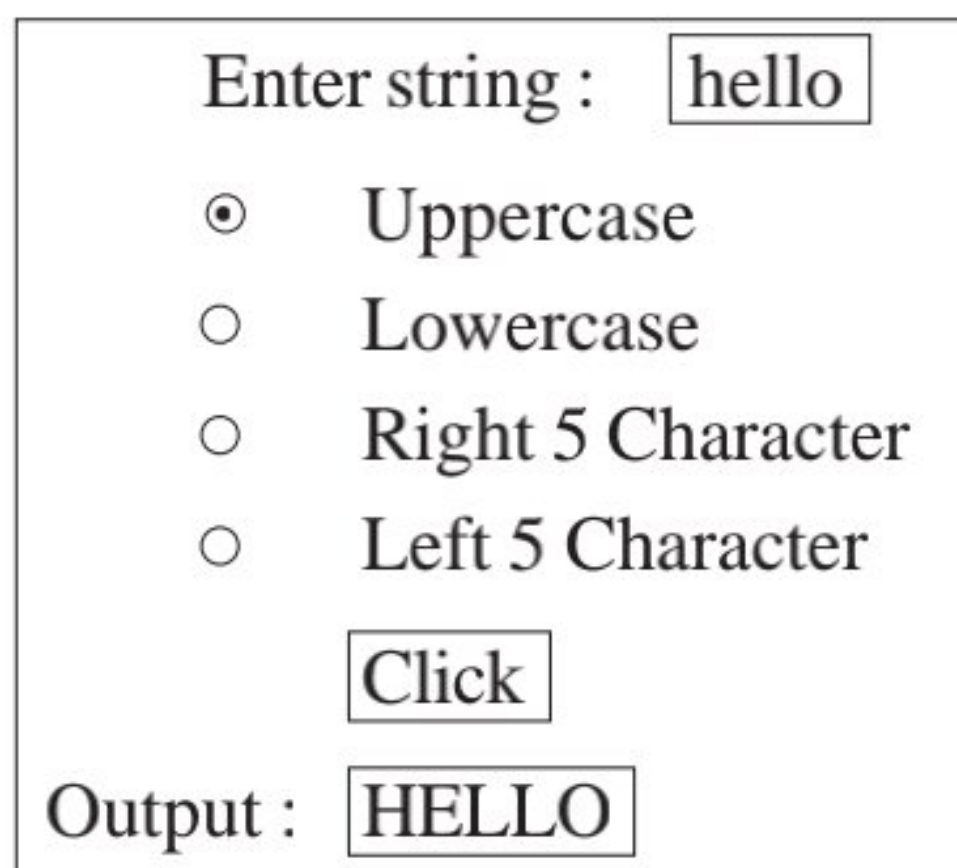
   e) Describe the Android architecture in detail.

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

a) Observe the following GUI and write an XML file using relative layout to create the same.

b) Develop an application to send and receive SMS. (Write only .java and permission tag in manifest file).

c) Develop an application to store student details like roll no, name, branch, marks, percentage and retrieve student information using roll no. in SQLite databases.

d) Create an Android Application to perform following string operation according to user selection of radio button.

e) Create an Android App with Logic screen. On successful login, gives message go to next activity (Without using database & use TableLayout).

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

a) Write an Android program to perform Zoom In, Zoom Out operation and display Hybrid view on Google MaP.

b) Explain Date and Time picker with its methods.

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

d) What is cursor in SQLite? Explain with example.

e) Develop a simple calculator using Table Layout.

Q5) Write a short notes on any Two of the following :   **[2 × 3 = 6]**

    a)   SQLiteDatabase

    b)   ProgressBar

    c)   Geocoding and Reverse coding

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T.Y. 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 question are compulsory.*
2) *Draw neat diagrams wherever necessary.*
3) *Design paper GUI.*

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

a) What is the use of CLR?

b) What is CTS?

c) Enlist any two operator in vB.net?

d) Explain following Function?

   i) MessageBox( )

   ii) InputBox ( )

e) Explain 'this keyword in C#?

f) Explain constructor and Destructors In C#?

g) Explain server object?

h) Explain the type of menu control?

i) Explain connected and Disconnected Architecture in ADO .net?

j) Explain Timer control in vb.net?

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

a) Explain Architecture of .net fromework?

b) What are HTML control?

c) Explain Asp.net basic control?

d) What is connection object in ADO.net?

e) Explain DataReader in ADO.net?

P.T.O.

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

   a)   Write a vb .net program for find max number among Entered two number.

   b)   Write a vb .net program to check whether Enter string is palindrome or not.

   c)   Write a vb .net program to accept a number from user throge input box and display its multiplication table into list box?

   d)   Write a program in C# .net for sum of two number.

   e)   Write a program in C# .net to reverse given number.

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

   a)   What is command object?

   b)   Explain Event handing in ASP .net?

   c)   Write a C# program to swap two number.

   d)   Write a vb .net program to move the text "Pune university" continuosly from left to right.

   e)   Write a C# program for multiplication of matrix.

Q5) Write a short notes on Any Two of the following : [**2 × 3 = 6**]

   a)   Method overloading in C#.

   b)   Validation Control in ASP .net.

   c)   Explain Data type in vb .net.

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