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SEAT No. :

PC1171

[6317]-401

[Total No. of Pages :2

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

**CA-601 : RECENT TRENDS IN INFORMATION TECHNOLOGY
(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 (Out of TEN)

[8×2=16]

- a) What is Apache kafka?
- b) What is data warehouse?
- c) What is data integration?
- d) Write types of OLAP server.
- e) Define natural language processing.
- f) What is ETL?
- g) List out steps of the KDD process.
- h) Define data frame.
- i) What is Deep Learning?
- j) What are the types of data?

Q2) Attempt any FOUR of the following (Out of Five)

[4×4=16]

- a) Explain data mining and knowledge discovery in database.
- b) Explain different RDD operations in spark.
- c) What is OLAP? Explain its operations.
- d) Explain Hill climbing technique.
- e) Explain applications of AI.

P.T.O.

Q3) Attempt any FOUR of the following (Out of Five)

[4×4=16]

- a) Explain data pre-processing.
- b) Explain Association rule mining with example.
- c) Explain data mining task.
- d) What is data cleaning? Describe various method of data cleaning.
- e) Explain BFS with example.

Q4) Attempt any FOUR of the following (Out of Five).

[4×4=16]

- a) Explain water jug problem with example.
- b) Describe the Architecture of data warehouse.
- c) Explain the multidimensional data model.
- d) Explain Depth First Search technique of artificial intelligence.
- e) Explain FP tree algorithm.

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

- a) 'Means End Analysis' (MEA) in artificial intelligence.
- b) MOLAP and HOLAP.
- c) Use of AI in agriculture.



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SEAT No. :

PC1172

[6317]-402

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T.Y.B.B.A./B.C.A. (Computer Application)

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) Explain the term performance testing.
- b) Define Big Bang Approach.
- c) Define failure and defect.
- d) Define verification testing.
- e) What is sandwich approach of integration testing?
- f) Define validation Testing?
- g) Explain sandwich approach.
- h) Explain terms-Error, Fault and Failure?
- i) Define regression testing.
- j) What is software metric?

P.T.O.

Q2) Attempt any Four of the following. (out of Five)

[4×4=16]

- a) Explain V-V Model of testing in detail.
- b) Explain load and Smoke testing in detail.
- c) Explain any four testing principles in detail.
- d) Explain all testing principles in detail.
- e) Differentiate between alpha and beta testing.

Q3) 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 white box testing and its techniques.
- d) Explain Capability Maturity Model (CMM) in detail.
- e) Explain in short a concept of Complexity Metrics.

Q4) Attempt any Four of the following. (out of Five)

[4×4=16]

- a) Explain Boundary- Value analysis in details.
- b) Explain GUI testing in details.
- c) Explain Sandwich and Big-Bang approach of Integration testing.
- d) Explain Software testing life cycle with diagram.
- e) Write difference between Static and Dynamic testing.

Q5) Write a short note on Any Two of the following. (out of Three)

[2×3=6]

- a) Rational Robot.
- b) System testing.
- c) Statement coverage criteria of White-Box testing.



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PC1173

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[6317]-403

T.Y. B.B.A. (Computer Application)

CA - 603 : ADVANCED JAVA

(CBCS 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) List any 2 JDBC drivers.
- b) What is protocol?
- c) What is JSP?
- d) What is sleep () method?
- e) What is session?
- f) What is TCP/IP?
- g) What is hybernate?
- h) What is port number?
- i) List any 2 implicit objects in JSP.
- j) What is thread synchronization.

Q2) Attempt any four of the following.

[4×4=16]

- a) Explain driver manager class & its methods.
- b) Write down the difference between do get () & do post () methods.
- c) Explain thread life cycle with diagram.
- d) What are the benefits of spring.
- e) Write a java program to display all the records from EMP table. Assume EMP (Eno, Ename, Salary) table is already created.

P.T.O.

Q3) Attempt any four of the following.

[4×4=16]

- a) List and explain types of result set in JDBC.
- b) Explain runnable interface with example.
- c) Explain socket & server socket classes used in networking.
- d) Write a multithreading program in java to display all the integers between 1 to 100 randomly after 2 seconds.
- e) Write a java program to delete the details of given teacher. Assume teacher table with attributes tno, tname, subject is already created.

Q4) Attempt any 4 of the following.

[4×4=16]

- a) Write a servlet application to display “Hello Java” message on the browser.
- b) List and explain any 4 directives in JSP.
- c) Explain prepared statement interface in detail with example.
- d) List different ways of session tracking. Explain any one in detail.
- e) Write a JSP script to display all the even numbers between 1 to n in Blue color.

Q5) Write a short note on any two of the following.

[2×3=6]

- a) Service () method.
- b) Thread class.
- c) Hibernate.



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PC1174

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T.Y. B.B.A.(Computer Application)
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 whenever necessary.*

Q1) Attempt the following (any 8).

[8×2=16]

- a) What is adapter?
- b) What is view group?
- c) Define Toast.
- d) Define Linear Layout.
- e) What is use of spinner?
- f) Define thread.
- g) Explain reverse Geocoding.
- h) What is Notification?
- i) Define SQLite database.
- j) Explain DVM.

Q2) Attempt the following (any 4).

[4×4=16]

- a) Describe the concept of services in Android and explain bounded & unbounded service in detail.
- b) Explain basic building blocks in android?
- c) Describe table layout with example.
- d) Explain the working of handlers & runnable.
- e) Explain service life cycle in detail.

P.T.O.

Q3) Answer the following (any 4).

[4×4=16]

- a) What is dialog box? Explain alert dialog with example.
- b) Explain the android architecture.
- c) What is Androidmanifest .xml file? Explain the importance of Androidmanifest .xml file in android application.
- d) Design a simple calculator using table layout.
- e) Demonstrate the use of Image button with suitable example.

Q4) Answer the following (any 4).

[4×4=16]

- a) Create a simple application, which reads a five digit positive number from the user, display the reverse number in another activity.
- b) Create a simple application which shows lifecycle of activity.
- c) What is Radio Button and Radio Group? Explain with example.
- d) Explain Gridview using Adapter.
- e) What is Menu? Explain its type

Q5) Answer the following (any 2) :

[2×3=6]

- a) Methods of AsyncTask.
- b) Broadcast receiver
- c) Custom dialog



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PC1175

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[6317]-405

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

Q1) Attempt any eight of the following.

[8×2=16]

- a) What is MSIL?
- b) Enlist string concatenation operators in Vb. Net.
- c) What is use of CLR?
- d) Explain input Box () and MsgBox () functions.
- e) What is Asp.Net?
- f) What is request object and response object?
- g) Define sealed class with its syntax.
- h) What is use of virtual key word in c #?
- i) What is use of executenon Query () and execute Reader () ?
- j) What is use of 'This key word'?

Q2) Attempt any four of the following.

[4×4=16]

- a) Explain Data Adapter object in ADO.Net.
- b) What are access modifiers? Explain types of access modifiers with example.
- c) Explain any four validation controls in Asp.Net.
- d) Explain interface with examples.
- e) Explain Asp.Net basic controls.

P.T.O.

Q3) Attempt any four of the following.

[4×4=16]

- a) Write C# program to check given number is armstrong number or Not.
- b) Write Ve.Net program to accept character from keyboard and check whether it is vowel or consonant.
- c) Write Vb.Net program to calculate factorial of given number.
- d) Write Vb.Net program to accept a number from Input Box and display its multiplication table in listbox.
- e) Write C# program to find transpose of matrix

Q4) Attempt any four of the following.

[4×4=16]

- a) Explain constructor in C# with suitable example.
- b) Explain any four dialog controls in Vb.Net.
- c) Explain data reader in ADD.Net.
- d) Write C# program to calculate sum of digits of given number.
- e) Write Vb.Net program to perform addition of two numbers using runtime textbox.

Q5) Write short note on any two of the following:

[2×3=6]

- a) Inheritance in C#
- b) Treeveiw control
- c) Master page in Asp.Net.

