



**GB-076003**

Seat No. \_\_\_\_\_

**B. C. A. (Sem. VI) Examination**

**March - 2019**

**BCAOC - 603 : Advanced Java**

Time : 3 Hours]

[Total Marks : 70

- Instructions :**
- (1) Figures on the right indicate the marks.
  - (2) All Questions are compulsory.
  - (3) Answer of each question must start on a new page.
  - (4) Answer of all sub-questions of a question should be written in continuous order.

**1 Do as Directed : (Any 14) 14**

- (1) Which of these classes are used by character streams for input and output operations?
  - (a) InputStream
  - (b) Writer
  - (c) ReadStream
  - (d) InputStream
- (2) \_\_\_\_\_ used to perform all input & output operations in Java
- (3) java.io.FileWriter is a direct sub-class of \_\_\_\_\_.
- (4) Discuss Piped streams in brief
- (5) What is the use of JPanel?
- (6) Which of the following are correct event handling methods?
  - (a) mousePressed(MouseEvent e){ }
  - (b) MousePressed(MouseClick e){ }
  - (c) functionKey(KeyPress k) { }
  - (d) componentAdded(ContainerEvent e) { }
- (7) What is Container class in java?
- (8) In javax.swing package, what stands for 'X'?

- (9) What is the use of Callable Statement in JDBC?
- (10) What does meant by Server Socket?
- (11) AWT stands for \_\_\_\_\_.
- (12) Which is the super class of the swing component?
- (13) What is the use of Reader class in File Handling?  
Briefly explain.
- (14) What is the full form of UDP ?
- (15) What is the use of blob, clob data types in JDBC?
- (16) What is use of forName() method?

**2 Explain Any Two : 14**

- (a) Discuss BufferedWriter and the BufferedReader class of java I/O with example.
- (b) Answer the following :
  - (1) Write a program which writes 10 numbers in the 4 file. Read this file and identify odd and even numbers among them.
  - (2) What is stream? Differentiate between Byte Stream and Character Stream. **3**
- (c) Explain the concept of Random Access File with example.

**3 Explain Any Two : 14**

- (a) Explain JTextField, JPasswordField and JTextArea classes with suitable example.
- (b) Create a Frame which contains some buttons, showing the names of various Colors. Use event handling to set background color of the Frame depending on the button selected.
- (c) Answer the following :
  - (1) Compare Swing components and AWT components. **4**
  - (2) What is the difference between JFrame and JApplet? **3**

- 4 Explain Any Two : 14**
- (a) List all layout managers and explain any BorderLayout, CardLayout and FlowLayout managers in detail with suitable example
  - (b) Write a client-server program using TCP or UDP where the client sends 10 numbers and server responds with the numbers in sorted order
  - (c) What is event and event handling? List all event classes. Explain ActionEvent, MouseEvent class with appropriate methods and suitable example.
- 5 Answer Any Two : 14**
- (a) What is JDBC? List out all various types of JDBC Driver. Compare the various driver types for their advantages and disadvantages.
  - (b) Explain the use of PreparedStatement with appropriate example.
  - (c) What is the use of ResultSet in JDBC? Write a code in JDBC for view list of records from a table. How does one get column names for rows returned in a ResultSet?
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