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Reg. No. :

Code No. : 8046

**Sub. Code : BCAM 13/
ZCAM 14**

M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2021

First Semester

Computer Applications– Core

ADVANCED JAVA PROGRAMMING

(For those who joined in July 2020 onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is a valid declaration of an object of class say MCA?
 - (a) MCA obj=new MCA();
 - (b) MCA obj=new MCA;
 - (c) obj=new MCA();
 - (d) new MCA obj;

2. What is the process of defining more than one method in a class having the same name but differentiated by method signature?
(a) Method overriding (b) Method overloading
(c) Encapsulation (d) Inheritance
3. Which of the following class is not a member class of java.io package?
(a) String (b) StringReader
(c) Writer (d) FileReader
4. Which of these are legacy classes?
(a) Stack (b) Hashtable
(c) Vector (d) All of the mentioned
5. Which of the following is advantage of using PreparedStatement in Java?
(a) Slow performance
(b) Encourages SQL injection
(c) Prevents SQL injection
(d) More memory usage
6. Which of these events is generated when the component is added or removed?
(a) ComponentEvent (b) ContainerEvent
(c) FocusEvent (d) InputEvent

7. How many bits are in a single IP address?
- (a) 8
 - (b) 16
 - (c) 32
 - (d) 64
8. Which one of the Exception is thrown by remote method?
- (a) RemoteException
 - (b) InputOutputException
 - (c) RemoteAccessException
 - (d) RemoteInputOutputException
9. Which of the following is not a feature of Beans?
- (a) Introspection
 - (b) Events
 - (c) Persistence
 - (d) Serialization
10. Which of the following code is used to get an attribute in a HTTP Session object in servlets?
- (a) session.getAttribute(String name)
 - (b) session.alterAttribute(String name)
 - (c) session.updateAttribute(String name)
 - (d) session.setAttribute(String name)

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Discuss the requirement of each keyword in the following java program statement:
`public static void main(String args[])`

Or

- (b) Write a note on enumerations in Java.

12. (a) Classify any five ByteStream classes.

Or

- (b) Summarize HashTable.

13. (a) List down the Swing packages.

Or

- (b) Generalize the JDBC statements.

14. (a) Explain about InetAddress.

Or

- (b) Write any five methods defined by Basic FileAttributes.

15. (a) Outline the advantages of java Beans.

Or

- (b) Write down the Life Cycle of a Servlet.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) What is method overloading and method overriding? Differentiate these with an example java program.

Or

- (b) Discuss about the usage of packages with an example java program.

17. (a) Illustrate bounded wildcards.

Or

- (b) Generalize the Collection interfaces.

18. (a) Discuss in detail about the four types of Swing buttons.

Or

- (b) What are the steps to connect to the database in java? Explain in detail.

19. (a) List down the methods defined by Buffer class.

Or

- (b) Write a Simple Client/Server Application Using RMI.

20. (a) Explain about the Java Beans API.

Or

- (b) Discuss in detail about the javax.servlet package.
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