

**B. C. A. DEGREE END SEMESTER EXAMINATION OCTOBER 2017**  
**SEMESTER – 3: BACHELOR OF COMPUTER APPLICATIONS (CORE COURSE)**  
**COURSE: 16U3CRBCA11, PROGRAMMING IN JAVA**  
*(For Regular - 2016 Admission)*

Time: Three Hours

Max. Marks: 75

**PART A**

Answer **all** questions. Each question carries **1** mark.

1. Define inheritance.
2. What is the use of *ResultSet* Class?
3. What is the super class of all classes?
4. What is JDBC?
5. What is the purpose of the keyword *this*?
6. Which is the keyword is used to create Boolean variable in java?
7. Name any two classes in *util* package.
8. Which method is first invoked when applet start running?
9. What is the use of *notifyAll ()* function in thread class?
10. Define a class. ( 1 x 10 = 10)

**PART B**

Answer **any eight** questions. Each question carries **2** marks.

11. What is a wrapper class?
12. What is the use of the keyword *final* ?
13. How is JAVA bytecode different from other low-level computer languages coding?
14. Differentiate between *throw* and *throws*.
15. Explain *finalize ()* method.
16. Write a simple java program to concatenate two strings.
17. What is the use of the keyword *super*?
18. Differentiate between class and interface?
19. What is mean by prepared statements in JAVA?
20. Describe in brief about thread priorities? (2 x 8 = 16)

**PART C**

Answer **any five** questions. Each question carries **5** marks.

21. What is the difference between the following two java statements.

String S1 = "Hello";

String S2=new String("Hello");

22. Explain the life cycle of applet?
23. What is the difference between error and exceptions? Explain how exceptions are handled in Java?
24. Explain command line arguments in java.
25. Write a java program to find smallest of three numbers (Follow OOP concepts)
26. Explain the relation between abstract keyword and method overriding?
27. Write a connection statement for connecting a mysql database from a JAVA program. Following are the credentials.

URL : localhost:3306/mydb  
Username : scott  
Password : tiger

(5 x 5 = 25)

#### PART D

Answer **any two** questions. Each question carries **12** marks.

28.
  - a. Explain in detail about interfaces in JAVA with example,
  - b. How multiple inheritance is implemented in Java? Explain with example program.
29.
  - a. Write a Java program to sort N integers in ascending order.
  - b. Explain any 5 features of Java
30.
  - a. Write a SWING or AWT program to create a simple Login Interface.
  - b. Write a Java program and the corresponding HTML code for printing "Hello World" in the center of an applet of size 600x400.
31.
  - a. Explain about different JDBC Drivers.
  - b. Explain Stream classes in JAVA.

(12 x 2 = 24)

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