LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A.DEGREE EXAMINATION –**COMPUTER APPLICATIONS**

THIRD SEMESTER – **APRIL 2019**

16/17UCA3MC01– PROGRAMMING IN JAVA

Date: 25-04-2019   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART-A

Answer ALL the Questions   **(10x2=20 marks)**

1. What is byte code?

2. Define Encapsulation

3. What is an object?

4. What is the use of final keyword?

5. What is the difference between Array and vector.

6. What is a Package?

7. What are the different states of a thread?

8. What is synchronization and why it is important?

9. What is Applet?

10. What do you know about   Event class.

PART-B

Answer ALL the Questions: **(5x8=40 marks)**

11. a. List the major differences between Java and C++

(or)

b. Explain the structure of java programming

12. a. What is a constructor? How do we invoke a Constructor?

(or)

b. What is a method? Explain briefly the about method overloading.

13. a. What is an interface? Explain the structure of interface with example.

(or)

b. Define Package and explain how the packages are implemented.

14. a. Explain the importance of synchronization in Multithreading.

(or)

b. What is Multithreading? Explain with example.

15. a. Explain the steps involved to execute and run an applet.

(or)

b. Write a method in java applet to display a circle.

PART-C

Answer any TWO Questions: **(2x20=40 marks)**

16. a. What are the various loop constructs in java? Explain with examples

b. Explain single and multilevel inheritance in detail with example

17. a. Discuss about one-dimensional array with examples

b. Explain the following with necessary code

(i) Creating thread

(ii) Stopping and Blocking a thread

18. a .What is AWT? What are the various components in AWT?

b. What is vector utility class? Explain with suitable example.

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