16U533 (Pages: 2) Name: ………….…………..

Reg. No…………………….

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
(CUCBCSS-UG)
CC15UBCS5 B09 - JAVA PROGRAMMING
(Computer Science – Core Course)
(2015-Admission onwards)

Time: Three Hours   Maximum: 80 Marks

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

1. What do you mean by bytecode in Java?

2. Define truncation in Java.

3. What is the return type of Constructors?

4. What is a wrapper class?

5. What is the advantage of exception handling?

6. What is the default value of priority variable MIN_PRIORITY AND

   MAX_PRIORITY?

   a) 0 & 256   b) 0 & 1   c) 1 & 10   d) 1 & 256

7. The _____ method of class is used to register the driver class.

   a) setDriver()   b) getDriver()   c) forName()   d) registerDriver()

8. What is a socket?

9. Which of these functions is called to display the output of an applet?

   a) display()   b) paint()   c) displayApplet()   d) PrintApplet()

10. AWT stands for _____

(10 x 1 = 10 Marks)

Part II
Answer *all* questions. Each question carries 2 marks.

11. What are literals? Give any two examples.

12. What are composite data types? How is the size of a composite data type determined?

13. Differentiate between byte oriented and character oriented streams.

14. Describe the purpose of abstract and final keywords in Java.

15. What is an applet? What are the attributes of Applet tags?

(5 x 2 = 10 Marks)

Part III

Answer any *five* questions. Each question carries 4 marks.

16. What do you mean by a parameterized constructor? Give an example.

17. Explain method overriding with suitable example.

18. Explain briefly about access modifiers and their usage.

19. Describe any four string functions with suitable examples.

20. How can you create a thread by extending the Thread class? Illustrate with example.

21. What is the difference between an Abstract class and an Interface?

22. Explain different types of JDBC drivers.

23. What are packages? Explain the purpose of import statement.

(5 x 4 = 20 Marks)

Part IV

Answer any *five* questions. Each question carries 8 marks.

24. What do you mean by Object Oriented Programming? Explain various features of Object Oriented Programming.

25. Explain various decision making and looping statements in Java with suitable examples.

26. Explain call by value and call by reference parameter passing mechanisms with examples for each.

27. What is inheritance? A super class Person with two subclasses, Student and Instructor, that inherits from Person. A person has a name and a year of birth. A student has a department, and an instructor has a salary. Create the classes with suitable member functions to read and display the details.

28. What is exception-handling? What are the statements used for it? Show an example.

29. What are the advantages of multithreading? Explain thread synchronization with suitable example.

30. Discuss the lifecycle of an applet in detail.

31. Explain the following:
    a) Connection Interface.
    b) PreparedStatement Interface.
    c) CallableStatement Interface.
    d) ResultSet Interface.

(5 x 8 = 40 Marks)

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