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Total Number of Pages : 2

AR-17

B.TECH

3rd Semester (BACK PAPER) Examination-2019**BCSES3051/BCSPC3030/BITPC3030**

Common to AEIE/BIOTECH/CHEMICAL/ECE/CSE/IT Branches

OOPS THROUGH JAVA

Time : 3 Hours

Maximum : 100 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions) 10 x 2=20 Mark**Q.1. Answer All Questions**

- a Casting from byte to _____ data type, the result is no loss information.
a)short b) int c)long d) all of above
- b _____ operators are used to construct mathematical expression as in algebra.
a)Relational b) Mathematical c)Arithmetic d) Logical
- c _____ refer to fix value that does not change during the execution of a program.
a)variables b) constants c)identifiers d)integer
- d The _____ includes hundred of classes and methods grouped into several function packages.
a)API b) JVM c)JAVAC d) JRE
- e Java provides extensive set of classes, arranged in _____.
a)Package b) Library file c)Template class d) None
- f What are valid points about thread
a.Thread are subdivision of Process.
b.One or more Threads runs in the context of process.
c.Threads can execute any part of process. And same part of process can be executed by multiple Threads.
d.All
- g How can we create Thread
a.By Extending Thread class
b.Implementing Runnable interface
c.By using Executor framework - which can internally form threads
d. All
- h From the following statements which is a drawback for Applet?
a. It works at client side so less response time
b. Secured
c. It can be executed by browsers running under many platforms, including Linux, Windows, and Mac Os etc.
d. Plugin is required at client browser to execute applet
- i What invokes immediately after the start() method and also any time the applet needs to repaint itself in the browser?
a. stop() b. init() c. paint() d. destroy()
- j Which of these methods can be used to determine the type of event?
a) getID() b) getSource() c) getEvent() d) getEventObject()

PART – B: (Short Answer Questions) 10X2=20 Marks**Q.2. Answer All questions**

- a Why java called write once, run anywhere language?
- b Why the function main() always declared as static in java?
- c Differentiate between a static and non static data member in java?
- d Differentiate between a static and dynamic array in Java ?
- e Estimate various restrictions with static methods?
- f Describe interface. Write the syntax for implementing an interface in a class.
- g Define the behavior of == operator in string class with code ?
- h Differentiate between implements and extends?
- i Identify the attributes of applet tag?
- j Define Adapter Class

**PART – C: (Long Answer Questions) 4X15=60 Marks****Answer ALL questions**

- Q.3**
- a Write a program to check the give number is prime or not? 7
- b Demonstrate a java program to implement Selection sort? 8
- OR
- c Design a Java program to perform addition of two matrices, where the values are accepted to the both matrix at run time using Buffer Reader Class. 7
- d Demonstrate a Java program to accept a number at run time using scanner class and check the given number is Armstrong or not? 8
- Q.4**
- a Differentiate between function over loading and constructor overloading with a suitable example? 7
- b Discuss about constructor? Explain constructor overloading with example 8
- OR
- c Write a Java program to implement Polymorphism.(Note: Consider a scenario, Bank is a class that provides method to get the rate of interest. But, rate of interest may differ according to banks. For example, SBI, ICICI and AXIS banks are providing 8.4%, 7.3% and 9.7% rate of interest 7
- d Differentiate between class and interface with suitable example? 8
- Q.5**
- a What is user defined Exception in Java ? WAP to accept student age and check whether he is eligible for vote or not? Show an appropriate message when the age is not eligible? 5
- b Write a java program to store “Java file is good” in to a file called “myfile.txt”. 10
- OR
- c What is exception? And explain try, throw and catch with a suitable exemple? 7
- d Demonstrate a program to accept the first 10 natural number store them in to text file called “Number.Txt”? 8
- Q.6**
- a Write a Java program of event handling by implementing Action Listener? 7
- b Design an applet having a circle which is moving from left to right and reflected back from right to left continuously? 8
- OR
- c Write a program to create an applet with yellow background and a message “Hello Applets” 7
- d Write a short notes on Adapter class 8

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