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Roll No.:....

333555(33)

B. E. (Fifth Semester) Examination, April-May 2021

(New Scheme)

(IT Branch)

PROGRAMMING in JAVA

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) is compulsory.

Attempt any two parts out of remaining part

(b), (c) & (d).

dimension, Create a mother sub classes nectangle

- 1. (a) What is JVM?
 - (b) Explain various control statements with example.Compare the following in terms of their function: 7

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- (i) While and do-while
- (ii) Break and Continue
- (c) Write a java program to find the number of sum of all integers greater than 100 and less than 200 that are divisible by 7.
- (d) Write a program to display star in triangular form: 7

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Minimum P * v Marks r. 28

Unit-II

2

- 2. (a) What is Shallow and Deep cloning?
 - (b) Write a program that creates an abstract class called dimension. Create 2 another sub classes rectangle and triangle. Include appropriate method for both the subclasses and then calculate and display the area of rectangle and triangle.

[3]

- (c) Explain the concept of static variable with example. 7
- (d) What is Inheritance? Why is multiple inheritance not available in java?

Unit-III

- 3. (a) What is thread? Also write the steps to create thread?
 - (b) Write a program to create a user defined exception which will throw on exception when entered number is greater than 20.
 - (c) Explain the difference between string and string buffer class and also explain some of the method defined in string class.
 - (d) Write a program for removing all occurences of a particular character from a string.

Unit-IV

- **4.** (a) When extending the thread class to provide a thread behaviour which method should be overridden?
 - (b) Write a program which shows how to read data from the keyboard and write if to my file txt.

2

7

2

	(c) Explain producer consumer problem. Write a suitable program in java to solve producer consumer problem.	7
	(d) What do you mean by the term thread priority? Write a suitable program to implement MIN, NORM and MAX priority in java.	7
	Unit-V	
5.	(a) What is delegation event method?	2
	(b) Write a program to handle a mouse event by extending AWT components.	7
	(c) What is JDBC? What are the steps in the JDBC connection in java?	7
	(d) Write a GUI program by using swing component for adding two number.	7
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	from the keyboard and oring it to my files as	