1.

Answer any five questions:



WEST BENGAL STATE UNIVERSITY

B.Sc. Programme 5th Semester Examination, 2020, held in 2021

CMSGDSE01T-COMPUTER SCIENCE (DSE1)

PROGRAMMING IN JAVA

Time Allotted: 2 Hours Full Marks: 50

The figures in the margin indicate marks of question.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

 $2 \times 5 = 10$

GROUP-A

	(a)	What do you mean by JVM?	
	(b)	What is the difference of error and exception?	
	(c)	What is data abstraction?	
	(d)	What is the function of 'this()' in Java?	
	(e)	Differentiate between final and finally.	
	(f)	Is it possible to have a 'try' block without a 'catch' block?	
	(g)	What is garbage collection in java?	
	(h)	State two similarities between Interfaces and Classes.	
GROUP-B			
		Answer any five questions	$8 \times 5 = 40$
2.	(a)	Describe the thread life cycle.	5+3
	(b)	Explain all the terms of public static void main (String args []).	
3	(a)	What is an Applet? Explain the life cycle of an Applet.	5+3
٥.	` ′	What are the differences between an Applet and a Java Application.	J + J
	(0)	what are the differences between an Applet and a Java Application.	
4.	(a)	What is abstract class in Java?	3+5
	(b)	Explain multilevel inheritance with example.	
5.	(a)	What is static variable and static method?	3+5
	(b)	Explain the differences between method overriding and method overloading. Give example.	

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- 6. Briefly describe the behaviour of an user define exception with an example. What is constructor overloading?
- 7. Write a program to accept number from user and convert into binary by using 3+5 wrapper class methods. Explain wait() method related to thread.
- 8. (a) Write down the difference between String class and String Buffer class. 3+5
 - (b) Write a program in Java to extract a portion of string and print the extracted string.
- 9. Write short notes on any *two* of the following:

 $4 \times 2 = 8$

- (a) Access specifiers
- (b) Strings in Java
- (c) Stream classes
- (d) Constructor chaining.
 - **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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