B. Tech (Third Semester Computer Science & Engineering (C.B.C.S)) Winter – 2022

End Semester Examination

Course Name: Object Oriented Programming with java

Course Code: BCS2303	ASD/EFV5/63-6K/1474
Time: 3 Hours]	[Max. Marks: 60

Instructions to Candidates:

- 1. All questions carry marks as indicated.
- 2. All the sub- questions (a, b, c, d, and e) of Que.1 in Section A are compulsory.
- 3. Solve any two sub-questions in Que. 2 to Que.6 in Section B.
- 4. Assume suitable data wherever necessary.
- 5. Use of non-programmable calculator is permitted.

Section A

Que. 1.	(a) Compare C++ & Java.		(CO1)
	(b) How to define class & object in java.	2	(CO2)
	(c) Define Package.	2	(CO3)
	(d) What is synchronization in threads.	2	(CO4)
	(e) Write the steps to create Appler.	2	(CO5)

Section **B**

Que. 2.	(a) Show the use of ternary operation in java program.	5	(CO1)
	(b) Explain features of JAVA	5	(CO1)
	(c) How to create 0 1-D & 2-D Arrays in java show with suitable example.	5	(CO1)

Que. 3. (a) Develop a java code for a class 'Student' having data members like roll-no, 5 (CO2) name & percentage accept & display information for two students using parameterized constructor.

(b) Enlist different uses of this keyword. 5 (CO2)

(c) Show the uses of different access specifiers in different programming 5 (CO2) environments.

Que.4	(a) Explain polymorphism with an example program	5	(CO3)
	(b) Demonstrate multilevel inheritance program	5	(CO3)
	(c) Why java does not support multiple inheritance. Justify with sample code	5	(CO3)
Que. 5.	(a) Explain thread life cycle	5	(CO4)
	(b) Write a java program which will throw user defined exception	5	(CO4)
	'Unauthorized User', when password mismatch		
	(c) Show the use of Runnable interface with program.	5	(CO4)
Que. 6.	(a) Write any 5 events in JAVA	5	(CO5)
	(b) Write a java application program to create 'submit' & 'reset' buttons along	5	(CO5)
	with three radio buttons 'male', 'female', ' transgender'		
	(c) Draw and explain Applet life cycle in Java	5	(CO5)



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