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Sl. No.

21CSC1C2L

M.Sc. I Semester Degree Examination, April/May - 2023

COMPUTER SCIENCE

Java Programming

Time : 3 Hours

Maximum Marks : 70

Instruction : Answer **any five** full questions (**Q. No. 1 is compulsory**)

1. (a) List out and explain the features of JAVA. 7
(b) Enlist different types of control flow statements and discuss decision making statements with example. 7
2. (a) Mention different ways to declare a variable in java and list out rules for declaring a variable in java. 7
(b) Discuss the mechanism of initialization of object by reference and list out the characteristics of object. 7
3. (a) Explain how to overload method in java with an example. 7
(b) Differentiate between abstract class and abstract method. 7
4. (a) Write a java program to demonstrate a five string methods. 7
(b) Explain unchecked exception in java with an example. 7
5. (a) List out and explain methods of Graphics class with an example. 7
(b) Design an applet which uses card layout with 3 buttons. 7
6. (a) Write a pseudocode to demonstrate Garbage collection. 7
(b) Write a program to implement single level & multi-level inheritance 7
7. (a) Enlist advantages of package and explain sub-packages in java. 7
(b) Discuss the hierarchy of Java Swing classes. 7
8. Write short notes on the following : 5+5+4
(a) Access Modifiers
(b) Wrapper Classes
(c) Interface

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