



Seat No. _____

H-003-00340700
B. C. A. (Sem. IV) (CBCS)
(W.E.F. 2016) Examination
April - 2023
CS-19 : Programming With JAVA

Faculty Code : 003
Subject Code : 00340700

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) Give full form of JDK
 - (2) Give full form of JRE
 - (3) Give full form of OOP
 - (4) Give full form of JVM
- 1 (b) Answer in brief : (Any **One**) 2
- (1) Explain Class in JAVA.
 - (2) Explain Operators in Java.
- 1 (c) Answer in detail : (Any **One**) 3
- (1) Explain Data Type in Java.
 - (2) Explain Features of Java.
- 1 (d) Write a note on following question : (Any **One**) 5
- (1) Explain OOP Concept in Java with Constructor Overloading.
 - (2) Explain in detail Java Tokens.

- 2 (a) Attempt the following : 4
- (1) What is Public?
 - (2) What is Private?
 - (3) What is Protected?
 - (4) What is package?
- 2 (b) Answer in brief : (Any **One**) 2
- (1) Explain Abstract Class.
 - (2) Explain Final class.
- 2 (c) Answer in detail : (Any **One**) 3
- (1) Explain Hash Table with Example.
 - (2) Explain Java API packages.
- 2 (d) Write a note on following question : (Any **One**) 5
- (1) Explain types of inheritance in java with example.
 - (2) Explain Math class with its method.
- 3 (a) Attempt the following : 4
- (1) When does Exceptions in Java arise in code sequence?
 - (2) _____ keywords must be used to monitor for exceptions?
 - (3) _____ method of Thread class is used to find out the priority given to a thread.
 - (4) _____ method used to start a thread execution.
- 3 (b) Answer in brief : (Any **One**) 2
- (1) What is Daemon Thread.
 - (2) Explain Random Access File Class.
- 3 (c) Answer in detail : (Any **One**) 3
- (1) Explain Buffered Reader and File Reader class.
 - (2) Explain Datainput Stream Class.
- 3 (d) Write a note on following question : (Any **One**) 5
- (1) Explain Thread Life cycle with Example.
 - (2) Explain try, catch throw, throws, finally with suitable examples.

- 4 (a) Attempt the following : 4
- (1) What is Flow Layout?
 - (2) What is No Layout?
 - (3) What is Card Layout?
 - (4) What is Box Layout?
- 4 (b) Answer in brief : (Any **One**) 2
- (1) Explain Border Layout.
 - (2) Explain Applet tag.
- 4 (c) Answer in detail : (Any **One**) 3
- (1) Explain Graphics class.
 - (2) Explain Spring Layout with Example.
- 4 (d) Write a note on following question : (Any **One**) 5
- (1) What is Applet? Explain Applet Life Cycle with Suitable Example.
 - (2) Explain Grid Bag Layout with GridBagConstraints with Example.
- 5 (a) Attempt the following : 4
- (1) What is JLabel?
 - (2) Full form of AWT is_____.
 - (3) Full form of API is_____.
 - (4) _____ is a change in the state of an item?
- 5 (b) Answer in brief : (Any **One**) 2
- (1) Explain JPasswordField.
 - (2) Explain JList.
- 5 (c) Answer in detail : (Any **One**) 3
- (1) Difference between AWT and Swing.
 - (2) Explain Menus.
- 5 (d) Write a note on following : (Any **One**) 5
- (1) Explain different types of Listener Interfaces with Example.
 - (2) Explain different types of Adapter Classes with Example.