



DAF-003-1044001

Seat No. _____

B. Sc. (IT) (Sem. IV) (CBCS) (WEF-2016)

Examination

April - 2022

CS-19 : Programming With Java

Faculty Code : 003

Subject Code : 1044001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : Attempt all the questions.

- 1 (A) Objective Type Questions :
- (1) Full form of JVM is _____. 1
 - (2) Scanner class belongs into _____ package. 1
 - (3) List out all data type in Java. 1
 - (4) What is the size of long data type in Java? 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain JVM.
 - (2) Explain Jumping statements with example.
- (C) Answer in detail : (any **one**) 3
- (1) Define a class Student having data members rollno, name and percentage. Define getData () and putData () method to initialize data members and display data members as output.
 - (2) List types of loop and explain with example.
- (D) Write a short note : (any **one**) 5
- (1) Describe Java Features.
 - (2) Define a class Book having data members title, price and tot_page. Define default and parameterized constructor to initialize data members. Define show () method to display output. Create two objects and demonstrate.

- 2 (A) Objective Type Questions :
- (1) _____ Keyword is used to define a derived class. 1
 - (2) _____ Keyword is used to import a package. 1
 - (3) Write any two access specifiers. 1
 - (4) List out any two Java API Packages. 1
- (B) Answer in brief : (any **one**) 2
- (1) Describe Abstract Class.
 - (2) Define a class Book having data members title, price and tot_page. Define default and parameterized constructor to initialize data members. Define show () method to display output. Create two objects and demonstrate.
- (C) Answer in detail : (any **one**) 3
- (1) Define a class Company having data members c_name and c_code. Define get_company() method to initialize data members. Define derived class Department having data members dname and dno as data members. Define get_dept() method to initialize data members and show() method to display all information as output. Create object of derived class and invoke methods.
 - (2) Describe length(), toUpperCase(), replace(), charAt() and concat() methods of String class.
- (D) Write a short note : (any **one**) 5
- (1) What is inheritance? List its types and explain any one.
 - (2) Explain super keyword with example.
- 3 (A) Objective Type Questions :
- (1) If an exception is generated in try block, then it is caught in _____ block. 1
 - (2) _____ Package provides classes for IO programming. 1
 - (3) Give name of constructor for thread. 1
 - (4) Write Exception for ' "divide by zero" 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain Piped Stream.
 - (2) Explain throw and throws.
- (C) Answer in detail : (any **one**) 3
- (1) Write a program to copy one file into another file.
 - (2) Explain try-catch with example.
 - (3) Explain priority of Thread.

- (D) Write a short note : (any **one**) 5
- (1) Explain life cycle of thread.
 - (2) Describe ArithmeticException and Arrayindex Out Of Bounds Exception with an example.
- 4 (A) Objective Type Questions :
- (1) To run an applet _____ command is used. 1
 - (2) _____ is the default layout of an Applet. 1
 - (3) Write method name to give output of string in applet. 1
 - (4) What method is used Graphic Class Object as argument? 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain Graphics Class.
 - (2) Explain Choice Class.
- (C) Answer in detail : (any **one**) 3
- (1) Explain BorderLayout class with an example.
 - (2) Explain Button Class.
- (D) Write a short note : (any **one**) 5
- (1) Describe Label and Button class with example.
 - (2) Explain life cycle of an Applet.
- 5 (A) Objective Type Questions :
- (1) _____ event is generated by Button component. 1
 - (2) _____ package is used for event handling. 1
 - (3) Give full form of AWT. 1
 - (4) Give full form of API. 1
- (B) Answer in brief : (any **one**) 2
- (1) Explain JList.
 - (2) Explain JCheckBox.
- (C) Answer in detail : (any **one**) 3
- (1) Describe Event Delegation Model with example.
 - (2) Describe Key Events with example.
- (D) Write a short note : (any **one**) 5
- (1) Describe MouseEvents with example.
 - (2) Give difference between AWT and SWING.