



Seat No. _____

H-003-2014010

B. Sc. (Sem. IV) (W.E.F. 2019) Examination

April - 2023

CA-401 : Programming with JAVA

Faculty Code : 003

Subject Code : 2014010

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

- 1 (a) Answer in **one** word or sentence : **4**
- (1) What is full form of JVM ?
 - (2) Which method is used to obtain a length of String object?
 - (3) What is full form of API ?
 - (4) Which operator is used to concatenate strings ?
- 1 (b) Answer the following : (**One**) **2**
- (1) Define the term OOP.
 - (2) Explain Java Bytecode.
- 1 (c) Answer in brief : (**One**) **3**
- (1) What is a class and object in Java ?
 - (2) Give the full form of JDK, JRE, JVM.
- 1 (d) Write in detail : (**One**) **5**
- (1) List out the Operators in Java.
 - (2) Explain the default access specifier.
- 2 (a) Answer in **one or two** sentence : **4**
- (1) _____ keyword is used to instantiate constructor of class.
 - (2) _____ method has no return type, neither void.
 - (3) To inherit one class to another class _____ keyword is used.
 - (4) Java does support _____, _____ inheritance.

- 2 (b) Attempt any **One** : 2
- (1) Explain main Three characteristic of Java.
 - (2) Write about inheritance concept in Java.
- 2 (c) Answer the following : (Any **One**) 3
- (1) Explain any example of multi-level inheritance.
 - (2) Define the term constructor.
- 2 (d) Answer any **One** : 5
- (1) Explain overloading concept with a suitable example.
 - (2) Write about method overriding concept.
- 3 (a) Attempt in **one or two** sentences : 4
- (1) Which packages are imported by default ?
 - (2) Suspend thread can be revived by using_____method.
 - (3) Thread can be created by inheriting_____class.
 - (4) All classes under_____class are unchecked exception.
- 3 (b) Attempt any **One** : 2
- (1) Define the term Portable.
 - (2) What is an Exception ?
- 3 (c) Answer the following : (Any **One**) 3
- (1) How we can use the command line arguments in Java ?
 - (2) Give the use of finally in exception handling in Java.
- 3 (d) Answer any **One** : 5
- (1) What is an Exception ? Explain user defined Exception handling in Java ?
 - (2) Write use about throws and throw command.
- 4 (a) Write the use of following methods with its meaning in **one** : **4**
or two lines.
- (1) drawRect()
 - (2) fillRoundRect()
 - (3) drawArc()
 - (4) drawOval()

- 4 (b) Answer in brief : **(One)** 2
(1) Define the term AWT.
(2) What is an applet ?
- 4 (c) Answer in detail : **(Any One)** 3
(1) Explain the Event delegation model in Java.
(2) What is a layout manager ? Explain application of layout managers with example.
- 4 (d) Attempt any **One** : 5
(1) Explain the Applet life cycle with a suitable example.
(2) Explain two methods from Graphics class.
- 5 (a) Write use of following methods with its meaning in **one or two** lines : 4
two lines :
(1) Applet classes implements the _____ interface for action event.
(2) _____ interface components is for key press event.
(3) Which method is from applet used to color the background of applet ?
(4) Use of setColor() is for...?
- 5 (b) Answer in brief **One** : 2
(1) Differentiate applet and application program.
(2) Which Java class library includes a class for clickable buttons ?
- 5 (c) Answer in detail : **(Any One)** 3
(1) What is a Thread ? Write note on Thread life cycle with its states diagram.
(2) What is AWT ? Explain its different components with example.
- 5 (d) Attempt any **One** : 5
(1) Explain the Flowlayout with its constructor.
(2) Write in brief about Button and TextField.