



**NAV-003-003407**      Seat No. \_\_\_\_\_  
**B. C. A. (Sem. IV) (CBCS) Examination**  
**March / April - 2017**  
**CS-19 : Programming with Java**  
**(New Course)**

**Faculty Code : 003**  
**Subject Code : 003407**

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

[ Total Marks : 70

**Instructions :** (1) Attempt all questions.  
(2) Write a java code when necessary.

1      Attempt the following questions : 20

- (1) What is class ?
- (2) What is object ?
- (3) What is inheritance ?
- (4) What is polymorphism ?
- (5) What is array ?
- (6) What is constructor ?
- (7) What is garbage collection ?
- (8) What is package ?
- (9) What is Applet ?
- (10) What is public ?
- (11) Which method is called first by an Applet ?
- (12) To display text on the applet which method is used ?
- (13) Which operator can be used to concat two or more string objects ?
- (14) To import all the classes of Java.util package which syntax is used ?
- (15) The default layout manager is \_\_\_\_\_.

- (16) When the source file is successfully compiled which file is generated ?
- (17) Full form of JDK is \_\_\_\_\_.
- (18) Full form of JVM is \_\_\_\_\_.
- (19) Full form of JRE is \_\_\_\_\_.
- (20) List any two Java Edition Name \_\_\_\_\_

**2** (a) Attempt the following questions : (any three) **6**

- (1) Explain Buzzword of Java.
- (2) Explain Command Line Argument with example.
- (3) Explain Nested Class with example.
- (4) Explain Compiling and Executing basic Java program.
- (5) Explain Access Specifier with suitable example.
- (6) Explain type casting in Java with example.

(b) Attempt the following questions : (any three) **9**

- (1) Explain the use of keyword extends, super and abstract.
- (2) Explain constructor in inheritance with example.
- (3) Explain Java Tokens.
- (4) To find average of values given as a command-line argument also write necessary Exception Handling.
- (5) To copy file using character stream, provide source file name and destination file name using command line argument.
- (6) Explain Thread Life Cycle.

(c) Attempt the following questions : (any two) 10

- (1) Explain One Dimensional and Jagged Array with example.
- (2) Explain importance of constructor. Discuss the overloading of method and constructor with suitable example.
- (3) What is Package ? State the steps to create and import a package with example.
- (4) Explain Layout Manager. Explain types of it.
- (5) What is Synchronization ? Why it is needed ? Explain how to achieve it with example.

3 (a) Attempt the following questions : (any three) 6

- (1) Explain Var Args statement.
- (2) What is the use of swing in Java ?
- (3) Explain Thread Class and its methods.
- (4) Explain JComboBox Class.
- (5) Differentiate throw and throws.
- (6) Differentiate character stream and byte stream.

(b) Attempt the following questions : (any three) 9

- (1) Explain Event Delegation model.
- (2) Write a note on Applet Life Cycle with example.
- (3) Explain exception handling with try and catch block with example.
- (4) Write a Java Code to display HELLO INDIA on a frame.
- (5) To draw a circle in centre of the applet circle remain in the centre when applet resized.
- (6) Discuss different event classes.

(c) Attempt the following questions : (any two)

10

- (1) Explain menus related different classes in swing with suitable example.
- (2) Explain graphics class and its method with suitable example.
- (3) Explain Adapter class with suitable example.
- (4) Explain user defined exception class with example.
- (5) Write a Java swing program to display the following :

Output on a screen when user click on clear button all values clear and when user click on submit button it would display on a Jtable.

Name

City

State

Email

Clear

Submit