

B.C.A Semester - 4 (CBCS) Examination
April/May -2022 [OLD COURSE]
CS-19 PROGRAMMING WITH JAVA (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q.1(A) Answer the following questions (04)

1. To compile a java program _____ command is used. (javac / compile)
2. The extension of a java source file is _____.
3. Full form of JVM.
4. The instanceof operator returns a _____ type of value.

Q.1(B) Answer the following questions (ANY ONE) (02)

1. List out java tokens.
2. List out types of operators in java.

Q.1(C) Answer the following questions (ANY ONE) (03)

1. Explain static and non-static members.
2. What is loop? Explain different types of loops in java.

Q.1(D) Answer the following questions (ANY ONE) (05)

1. What is Constructor? List out different types of constructor in java. Explain any one with example.
2. What is overloading? Explain method overloading with suitable example.

Q.2(A) Answer the following questions (04)

1. A _____ is a container of Classes.
2. To import all the classes of java.util package _____ syntax is used.
3. To implement an interface, _____ keyword is used.
4. All the methods of an interface are _____ by default. (Abstract / Final)

Q.2(B) Answer the following questions (ANY ONE) (02)

1. What is method overriding?
2. What is final class?

Q.2(C) Answer the following questions (ANY ONE) (03)

1. Explain nested and inner class.
2. Briefly explain access specifiers available in java.

Q.2(D) Answer the following questions (ANY ONE) (05)

1. What is inheritance? List out types of inheritance in java. Explain any one.
2. Explain java.io package.

Q.3(A) Answer the following questions (04)

1. Which keyword is used to monitor statements for exception?
2. The exception class is in _____ package.
3. The thread class is in _____ package.
4. When a class extends the thread class, it should override _____ method of thread class to start that thread.

Q.3(B) Answer the following questions (ANY ONE) (02)

1. What is Multithreading?
2. What is exception handling?

- Q.3(C) **Answer the following questions (ANY ONE)** (03)
1. Explain reading and writing through character stream classes.
 2. Explain reading and writing through byte stream classes.
- Q.3(D) **Answer the following questions (ANY ONE)** (05)
1. Explain thread life cycle.
 2. Explain Exception handling in java.
- Q.4(A) **Answer the following questions** (04)
1. To run an applet _____ command is used.
 2. Which method is called first by an applet?
 3. The applet class is in _____ package.
 4. The default layout manager is _____.
- Q.4(B) **Answer the following questions (ANY ONE)** (02)
1. Explain paint method.
 2. Explain drawstring method.
- Q.4(C) **Answer the following questions (ANY ONE)** (03)
1. Explain color class.
 2. Explain graphic class.
- Q.4(D) **Answer the following questions (ANY ONE)** (05)
1. Explain applet life cycle.
 2. List out different layout in java. Explain any one with example.
- Q.5(A) **Answer the following questions** (04)
1. The swing classes are in _____ package.
 2. The _____ class is the super class of all the event classes.
 3. To register mouse event _____ method is used.
 4. The location of mouse pointer can be got by _____ methods.
- Q.5(B) **Answer the following questions (ANY ONE)** (02)
1. What is container?
 2. What is event listener?
- Q.5(C) **Answer the following questions (ANY ONE)** (03)
1. Explain JTextField and JTextArea.
 2. Differentiate : Swing v/s AWT
- Q.5(D) **Answer the following questions (ANY ONE)** (05)
1. Write note on Adaptor classes.
 2. Explain Event delegation model.
