

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
B.SC.(IT) /BCA Summer 2022-23 Examination

Semester:3/4**Subject Code: (05101251)****Subject Name: Core Java****Date: 24/03/2023****Time: 10.30am to 1.00pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.**A. Answer / Define the following in short.**

1. Why do we use import statement? (05)
2. List down types of Error.
3. Which inheritance is not supported in java?
4. Explain Array Index Out Of Bounds Exception.
5. What is stream?

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks) (10)

1. Which of these keywords must be used to inherit a class?
 - a) Super
 - b) This
 - c) extent
 - d) extends
2. Which of these keywords can be used to prevent Method overriding?
 - a) static
 - b) constant
 - c) protected
 - d) final
3. Which of this interface is implemented by Thread class?
 - a) Runnable
 - b) Connections
 - c) Set
 - d) MapConnections
4. Class file must have the extension_____
 - a) .class
 - b) .java
 - c) .sample.class
 - d) .cls
5. Which of these keywords is not a part of exception handling?
 - a) try
 - b) finally
 - c) thrown
 - d) catch
6. The class at the top of AWT hierarchy is _____.
 - a) Component
 - b) Window
 - c) Container
 - d) Frame
7. What Thread type approach is used for Terminating a thread for a period of time?
 - a) stop ()
 - b) sleep ()
 - c) terminate ()
 - d) suspend ()

8. When you pass an array to a method, the method receives
 - a) copy of the array
 - b) The length of the array
 - c) The reference of the array
 - d) copy of the first element
9. Which object can be constructed to show any number of choices in the visible window?
 - a) Labels
 - b) List
 - c) Choice
 - d) checkbox
10. Java was planned for first public release
 - a) Search Engine Development
 - b) Desktop Development
 - c) Operating System Development
 - d) Internet development

Q.2 Answer the followings. (3 Marks Questions.) (Any Five) (15)

1. Which are the components of JDK
2. What does a class can have?
3. Java exception handling is managed via which keywords?
4. The Border Layout provides five constants for Which region?
5. What are the different types of controls in AWT?
6. Explain Choice field with suitable example.

Q.3 Answer the following. (5 Marks Questions)(Any three) (15)

1. What are separators? Explain types of separators in detail.
2. Explain field and method declaration.
3. Explain java throws keyword.
4. Explain Grid layout in detail.

Q.4 Answer the following in detail.

A. Write a Program to draw a rectangle and line. **(05)**

B.(1) Explain method overriding in java with suitable example. **(05)**

B.(2) Explain Adapter Class in java. **(05)**

OR

B.(1) Explain how to read console input with suitable example. **(05)**

B.(2) Explain Java Runtime Environment. **(05)**