

Instructions:

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

SECTION A(14 Marks)

Attempt all questions

Question 1

Choose the correct answers

[2]

(i) What keyword do you use to import a class or a package containing classes?

- (a) include
- (b) import
- (c) package
- (d) add

(ii) The Math class is part of which java library package

- (a) java.util
- (b) java.io
- (c) java.random
- (d) None of these

(iii) The return type of Math.floor is ____

- (a) double
- (b) Double
- (c) int
- (d) long

(iv) size of boolean is ____

- (a) 1 bit
- (b) 1 byte
- (c) 8 bits
- (d) 8 byte

Question 2

(i) What is the value returned by the following line in java?

[2]

- (a) Math.ceil(7.8)
- (b) Math.ceil(-7.8)
- (c) Math.abs(-7.2)
- (d) Math.floor(π)

(ii) How many arguments are required for the following

[2]

- (a) Math.cbrt()
- (b) Math.min()
- (c) Math.random()
- (d) Math.round()

(iii) Name the type of error (syntax, runtime or logical error) in each Case given below

[1]

- (a) Math.sqrt(36-45)
- (b) int a; b; c;

- (iv) What is package? Name any two library packages. [1]
- (v) Write the following java expression into Mathematical expressions: [1]
- (a) `Math.pow(5,3)`
 - (b) `Math.sqrt(625)`
- (vi) Write the syntax to [1]
- (a) import only Scanner class
 - (b) import entire utility package
- (vii) What is the return type of the following functions: [1]
- (a) `Math.cbrt()`
 - (b) `Math.random()`
- (viii) Write the size of the following primitive data types used in java: [1]
- (a) float
 - (b) int
- (ix) State true or false. [1]
- (a) Each primitive data type has a predefined size and default value.
 - (b) Scanner is a package that is used in java.
- (x) What is the use of Math class of java library? [1]

SECTION B (6 Marks)

Attempt **any two** questions from this Section

Question 3

Write a java program to take your name as input from user through keyboard and display a greeting.

Question 4

Write a program that input radius of a circle and finds its perimeter.(using Scanner class)

Question 5

Write a program to calculate and print side of a room whose area is 441 sqm and is square in shape.
(use Math class)