



BRAINWARE UNIVERSITY

Course – BAMW

JAVA (BMW302A)

(Semester – 3)

Time allotted: 3 Hours

Full Marks : 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) The variables declared in class are called _____.

a. reference variable	b. object
c. instance variable	d. none of these.
 - (ii) The implicit return type of a constructor is _____.

a. void	b. a class object in which it is defined.
c. double	d. none of these
 - (iii) The main method should be static for the reason _____.

a. it can be accessed easily by the class loader	b. it can be accessed by every method or variable without any hindrance.
c. it can be executed without creating any instance of the class	d. none of these.
 - (iv) What is the default constructor of the class `public class Test { }`?

a. <code>public Test(void)</code>	b. <code>public void Test()</code>
c. <code>Test()</code>	d. <code>public Test()</code>
 - (v) Which is not a valid statement based on given code?

a. <code>A a = new A();</code>	b. <code>B a = new B();</code>
c. <code>A a = new B();</code>	d. <code>B b = new B();</code>

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

7. (a) Give examples of interface methods for adding two integers and concatenating two strings. [5]
(b) Hence, write a program for getting an object of interface through implementation of a class. [10]
8. (a) How can we declare an Event handler for a button? [5]
(b) Write proper Java code to exemplify your answer. [10]
9. (a) At any time, a thread is said to be in one of several thread states. Discuss the different states of Thread life cycle with proper pictorial presentation. [8]
(b) What is constructor? Explain its utility. Can there be a constructor in abstract class. Justify. [7]
10. What is multilevel inheritance? Write java code to exemplify multilevel inheritance with class. [3+12]
11. (a) Write suitable java code to exemplify “polymorphism” in java. [7]
(b) Write a Java function to convert a decimal number to its equivalent binary number. [5]
(c) Discuss split() function in Java [3]