

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA., Winter 2018 – 19 Examination

Semester: 4
Subject Code: 05101251
Subject Name: Core Java

Date: 10/12/2018
Time: 02:00 pm to 04:30 pm
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. Write short notes.****(05)**

1. Define JVM.
2. Why encapsulation is used in java?
3. Explain notify()
4. What is AWT?
5. What is difference between checked and unchecked exceptions?

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

1. Which is a valid keyword in java?
 - a) Interface
 - b) String
 - c) Float
 - d) Int
2. Which of these operators are used to allocate memory to array variable in Java?
 - a) Malloc
 - b) Calloc
 - c) new
 - d) new malloc
3. Which of these keywords must be used to inherit a class?
 - a) Super
 - b) This
 - c) extent
 - d) extends
4. Which of these keywords is used to define packages in Java?
 - a) Pkg
 - b) pkg
 - c) package
 - d) Package
5. Which of the following is correct way of importing an entire package 'pkg'?
 - a) import pkg;
 - b) Import pkg;
 - c) import pkg.*;
 - d) Import pkg.*;
6. Which of these keywords can be used to prevent Method overriding?
 - a) static
 - b) constant
 - c) protected
 - d) final
7. Which of these keywords is not a part of exception handling?
 - a) try
 - b) finally
 - c) thrown
 - d) catch

8. Which of these packages contain all the collection classes?
 - a) java.lang
 - b) java.util
 - c) java.net
 - d) java.awt
9. Which of this interface is implemented by Thread class?
 - a) Runnable
 - b) Connections
 - c) Set
 - d) MapConnections
10. Which of these method waits for the thread to terminate?
 - a) sleep()
 - b) isAlive()
 - c) join()
 - d) stop()

Q.2 Answer the followings. (Any Five)

(15)

1. What do you mean by access modifier in java? Explain with an example.
2. What are the advantages of package in JAVA?
3. How many types of constructor used in JAVA? Explain.
4. Why Java does not support Multiple Inheritance. If yes/no then justify.
5. Explain method overriding with example.
6. Draw and explain the diagram of compilation and execution of JAVA.

Q.3 Answer the following. (Any three)

(15)

1. Give the differences between C++ and JAVA.
2. Give the differences between abstract and interface.
3. What is multithreading? Write down advantages of it and also explain thread life cycle with diagram.
4. What is java Swing? Give the differences between AWT and swing.

Q.4 Answer the following.

A. Explain final keyword in JAVA with an example.

(05)

B. What is layout and layout manager? Explain all layout manager classes used in java with an example.

(10)

OR

B. What is event and event handling? Explain event delegation model with an example.

(10)