

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA Summer 2017 – 18 Examination

Semester: 3**Subject Code: 05201201****Subject Name: Java Programming****Date: 04/06/2018****Time: 02:00PM TO 04:30PM****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. (15)

A. Write short notes. (05)

1. What is the use of Super keyword?
2. What is garbage collection?
3. Define Polymorphism.
4. What is the difference between class and interface?
5. Why Java is known as “platform independent” language?

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

1. The Class is not user defined data type. True or False.
2. java uses “super” keyword to access child class constructor. True or False?
3. Which exception is thrown when divide by zero statement executes?
a) Numberformat Exception c) Arithmetic Exception
b) Nullpointer Exception d) None of these
4. Constructor overloading is possible in Java. True or False?
5. How many primitive data types are there in java?
a) 6 b) 7 c) 8 d) 9
6. In java a thread can be created by –
a) Extending the thread class. c) Implementing runnable interface
b) Both of above d) None of these
7. Which is a valid keyword in java?
a) Interface b) string c) float d) unsigned
8. What is the name of the method used to start a thread execution?
a) init(); b) start(); c) run(); d) resume();
9. Which of these keywords is used to define packages in Java?
a) pkg b) Pkg c) package d) create package
10. Which of these can not be used for a variable name in Java?
a) identifier b) keyword c) identifier & keyword d) None of the mentioned

Q.2 Answer the followings. (15)

1. What are checked exceptions? (02)
2. What is AWT? List out AWT controls. (02)
3. Explain Flow Layout and GridLayout. (02)

4.How multi-threading is important? Briefly explain. (03)

5. Explain any 3 features of Java. (03)

6.Differentiate overloading and overriding. (03)

Q.3 Answer the following. (Any three) (15)

1. Explain Variable shadowing with example.

2. Explain life cycle of Applet with example.

3. Explain Concept of Multithreading.

4. How we can perform exception handling in java? Explain with example.

Q.4 Answer the following. (15)

A. Differentiate AWT and Swing. (05)

B. Write a program for creating an ArrayList, add the elements in array list and then obtain an array from ArrayList and display the contents (10)

OR

B. Explain try-catch-finally blocks. (10)