

**2017**

Time : 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups are directed.

**Group – A**

**(Compulsory)**

1. Answer the following multiple choice questions: 1x15=15
- a) What was the name of First Version of Java?
    - i. Oak
    - ii. Tiger
    - iii. Play ground
    - iv. Mustang
  - b) Which all are correct for main method?
    - i. Public static void main (String args [])
    - ii. Private static void main (String args [])
    - iii. Static void main (String args [])
    - iv. Public Static void main (String a[])
  - c) What is the output of following program?

Class Text

```
{  
Public static void main (String S[])  
{  
    int l, j, k, l = 0;  
        k = l++;  
        j = ++k;  
        i = j++;  
System.out.println (i);  
    }  
}
```

- i. 0
- ii. 1
- iii. 2
- iv. 3

d) Which operator is used to perform bitwise inverse in java?

- i. ~
- ii. !
- iii. &
- iv. !

e) What is the size of int variable?

- i. 8 bits
- ii. 16 bits
- iii. 32 bits
- iv. 64 bits

f) Which keyword is used to access the features of package?

- i. Export

- ii. Import
  - iii. Package
  - iv. Extends
- g) What are the two types of exceptions available in java?
- i. Checked and compiled
  - ii. Unchecked and compiled
  - iii. Checked and unchecked
  - iv. Compiled and non-compiled
- h) Which type of exception does a sleep() method throw?
- i. Arithmetic exception
  - ii. Nullpointer exception
  - iii. Array Index out of Bound exception
  - iv. Interrupted exception
- i) Which interface is used to create a thread?
- i. Thread
  - ii. Runnable
  - iii. Thread Group
  - iv. Synchronization
- j) Which abstract class is the super class of all classes used for reading characters?
- i. Reader
  - ii. File Reader
  - iii. Byte Reader
  - iv. Input Stream
- k) Which Package contains Thread class?
- i. Java.lang
  - ii. Java.io
  - iii. Java.util

- iv. Java.thread
- l) Which of the following is not a method of an applet's life cycle?
  - i. Init()
  - ii. Start()
  - iii. Sleep()
  - iv. Stop()
- m) Which tool is used to execute an applet?
  - i. Java
  - ii. Javac
  - iii. Applet viewer
  - iv. Applet
- n) How many types of interfaces supported in Java?
  - i. 3
  - ii. 4
  - iii. 5
  - iv. 6
- o) Which of the following is the default value of a local variable?
  - i. Null
  - ii. 0
  - iii. Depends upon the type of variable
  - iv. Not assigned

### **Group – B**

Answer any **five** questions of the following:                      4x5=20

2. Explain the keyword this with the help of a program.
3. What are command line arguments and how are they used?

4. Write a program in java to make connection with oracle database.
5. Write a program in java to input an alphabet character and to print it's ascii value.
6. What is applet? Describe the complete life cycle of applet.
7. Explain the following:
  - a) Extends
  - b) Static
  - c) Implements
  - d) Abstract
  - e) Package
8. What is multiple interface? Explain with suitable example.
9. Distinguish between array and vector.
10. Define what are loops in java? Explain with example.

### **Group – C**

Answer any **five** questions of the following:

7x5=35

11. What is Thread? Explain their types with suitable example.
12. Explain the different layout managers of applet with suitable example.
13. Define what are the performance implications if interfaces over abstract class. Write suitable example.
14. What is Package? How we can define our own package? Write suitable example.
15. Define Jdbc Odbc in detail and write the code of displaying records from database.
16. What is Servlet? Explain with suitable example.
17. What are exceptions in Java? Explain in detail.

18. What are exception handlers in java? Explain all with suitable examples.
19. Write a program of multiple interface to input a string and to point that string into reverse.
20. Explain the complete life cycle of thread.

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