

BSc IT II Year Java 2013-17 Scanner

Unit I

Q1. What is the output of the following program? (2013)

```
public class Example
{
    public static void main (String [] args )
    {
        System.out.println(1=1)?(3==4)?5:6:4);
    }
}
```

Q2. What is the output of the following part of code (2013)

```
byte var = -18;
System.out.println(var);
```

Q3. What environment variable is used by java to store list of directives java looks for classes? (2013)

Q4. Which class does not have any superclass in Java? (2013)

Q5. How we can declare constants in Java? (2013)

Q6. Which access modifier is used to promote encapsulation in java? (2013)

Q7. What is the size of char data type? (2013)

Q8. Which operator works with variable but not literals? (2013)

Q9. What is size of int in Java? (2014)

Q11. What are the differences between C and Java? (2014)

Q12. Write a program to swap two variables without using any temp variable (2014)

Q13. What are arrays? (2015)

Q14. What is the size of double data type in java? (2015)

Q15. Why does java not support pointers? (2015)

Q16. Differentiate between C++ and java. (2015)(2017)

Q17. Write a program to print Fibonacci series by getting limit from user. (2015)

Q18. What do you mean by OOP? Explain any five features of OOP. Why is java a platform independent language? (2015)

Q19. What is the reserve keyword of function in Java? (2016)

Q20. Why documentation comment used in Java? (2016)

Q21. Define encapsulation. (2016)

Q22. Write a program to calculate factorial of a number given by the user. (2016)

Q23. Define the following (2016)

1) write difference between OOPs and Procedure oriented programming

2) why is java known as purely objected oriented programming?

3) Applet life cycle.

Q24. Explain characteristics of OOPs, and also define JVM and define why java is machine independent. (2016)

Q25. What is byte code? (2017)

Q26. Define type casting. (2017)

Unit II

- Q1. Arrange following operators in ascending order according to their precedence. (2013)
&&, ||, *, !, ?
- Q2. Which package is used as default package in Java? (2013)
- Q3. Explain life cycle of thread. (2013)
- Q4. What is method overloading? Explain with suitable example. (2013)
- Q5. What is inheritance? Explain various types of inheritance used in Java? (2013)
- Q6. Define inheritance relationship for rectangle parallelogram and Quadrilateral and also create classes for all three according to their inheritance. (2013)
- Q7. What is exception? What is exception handling? Explain various types of exceptions with their work. (2013)
- Q8. Write a program in Java to create your own exception. (2013)
- Q9. Write life cycle of applet. (2013)
- Q10. Write a program in Java for creating an applet to display bar chart of the following data (2013)
Note: Use data as parameters from html file.
- Q11. What is final variable? (2014)
- Q12. What is the return type of constructor? (2014)
- Q13. Write down the operators which have right associative property. (2014)
- Q14. What will be the O/P of (2014)
x = 5
System.out.println(X<<2);
- Q15. What will be the output of (2014)
x = 3;
Y = 4;
System.out.println(x>y?"Hello:++x);
- Q16. What is the default access specifier in class of Java? (2014)
- Q17. Write down all states of applets (2014)
- Q18. What is base class of all classes of Java? (2014)
- Q19. What is static variable? (2014)
- Q20. What is constructor? Explain various types of constructors in java with suitable examples (2014)
- Q21. What is abstract class? Explain it with suitable example. (2014)
- Q22. Explain life cycle of thread. (2014)(2017)
- Q23. Write a program in java to set priority of threads in java. Also explain it. (2014)
- Q24. What is super keyword? (2015)
- Q25. What is conditional operator in Java? (2015)
- Q26. What are packages in java? (2015)
- Q27. What is abstraction? (2015)
- Q28. Define a class with example. (2015)
- Q29. What are the types of constructors in java? (2015)
- Q30. What the differences between static and instance variables. (2015)
- Q31. What are abstract classes? (2015)
- Q32. Java does not support multiple inheritance. Explain the reason behind this statement. How can we achieve the same in java. (2015)
- Q33. What are applets? Explain life cycle of an applet. Write a java applet that takes colours as parameters and draw a rectangle filled with that colour. (2015)
- Q24. What do you mean by Exception handling? Write a program in java that takes a number from the user, if user enters string value, it should be handled by using exception handling. (2015)
- Q24. What is the use of new? (2016)
- Q25. What is the syntax of nested class? (2016)
- Q26. What is command line argument? (2016)
- Q27. Describe sleep thread. (2016)

- Q28. What is the difference between arguments and parameters? (2016)
- Q29. Explain try and catch block (2016)
- Q30. What is the difference between final and finally? (2016)
- Q31. Explain bitwise operator in java. (2016)
- Q32. Define interface with an example. (2016)
- Q33. What is package? Why is it used? Explain using an example. (2016)
- Q34. Write a program to display smiley using applet. Also define Applet. (2016)
- Q35. What do mean by multithreading? (2017)
- Q36. Why do we need import statement? (2017)
- Q37. What is interface? (2017)
- Q38. Explain finally block (2017)
- Q38. What is polymorphism? (2017)
- Q39. Define instanceof operator. (2017)
- Q40. How is method defined? (2017)
- Q41. Differentiate between break and continue statements. (2017)
- Q42. What is constructor? Explain the importance of constructor. (2017)
- Q43. What is the use of static data members? (2017)
- Q44. How can we create a package in java? (2017)
- Q45. Compare while and do...while statements in terms of their functions. (2017)
- Q46. When do we declare a method or class final and abstract? (2017)
- Q48. Describe the different stages in the life cycle of an applet. (2017)

Unit III

- Q1. Differentiate between String and StringBuffer class. (2013)
- Q2. What is Vector class? What are the advantages of Vector class? (2013)
- Q3. What is wrapper class? Explain various conversion methods used for primitive data, Wrapper class objects and String class. (2013)
- Q4. What is stack? (2014)
- Q5. Write a program to print current date in Java? (2014)
- Q6. What will be the output of following (2015)
- ```
String s = "Java Programming";
s = s.substring(3,8);
System.out.println(s);
```
- Q7. Explain String toString() method. (2016)

#### Unit IV

- Q1. Write Java code for the following chart. (2013)
- Q2. What is Java bean? (2013)
- Q3. What is BDk? Explain various types of beans used in BDk? How we can use beans? (2013)
- Q4. What is RMI? Explain architecture of RMI? (2013)
- Q5. What is CORBA? Explain various architecture of CORBA? (2013)
- Q6. Write down advantages of Java beans. (2013)
- Q7. Write down properties and methods of Frame class (2014)
- Q8. What is JDBC? Explain how we can use JDBC to get data from the database? (2014)
- Q9. Explain various methods of graphics. Also write syntax and example for them (2014)
- Q10. Explain the architecture of JDBC. Write an example how JDBC can get data from external database. (2015)
- Q11. Write short notes on the following (2015)
- 1) ODBC
  - 2) Java Beans
- Q12. Write short notes on the following (2015)
- 1) Threads
  - 2) AWT
- Q13. What is AWT? (2016)
- Q14. Explain Java Beans. (2016)
- Q15. Explain JDBC and ODBC in detail. (2016)
- Q16. What is AWT? What are the components of AWT? (2017)
- Q17. Describe JDBC in detail. (2017)
- Q18. Write short notes on the following ( any two ) (2017)
- 1) Bean serialization
  - 2) CORBA services
  - 3) RMI