

2019

Time : 3 hours

Full Marks : 80

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

The questions are of equal value.

Answer any five questions.

1. Explain any ten advantages and disadvantages of Internet. Also explain the complete process of how Internet works.
2. What is the basic purpose of TCP/IP ? How domain names and URL are important for Internet?
3. (a) WAP in Java to find greater between three no's.
(b) WAP in Java to check input no is even or odd.
4. Why Java is called platform independent programming language ? Differentiate between JRE and JDK.

5. Differentiate between command Line argument and Scanner class. Explain using a suitable Examples.
6. (a) WAP to find reverse of any digit.
(b) WAP to check input number is prime or not.
7. Explain Inheritance. Explain types of Inheritance with suitable examples.
8. Explain Interfaces.
9. Explain multithreading. Explain life cycle of Multithreading with suitable examples.
10. WAP in applet to find area and perimeter of rectangle.



2018

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*Answer any **five** questions.*

1. What is protocol ? What is TCP/IP suite protocol and explain its all layers ?
2. What is E-mail and its advantages and disadvantages ? What is modem ? Explain the types of Modem.
3. What is JRE (Java Runtime Environment) and what is command line argument ? Explain it with a suitable example.

4. (a) Write a program in Java to check whether a given number is palindrom or not.
(b) Write a program in Java to find the greatest of three numbers using conditional operator.
5. (a) What is vector ? How it is different from an array ? Explain it with a suitable example.
(b) What is constructor and destructor ? Explain it with a suitable exmaple.
6. What is package ? How many types of package are there ? Write the staps for creating a user defined package and give an example.
7. What is Thread ? How many ways are there to create a thread ? Discuss the life cycle at thread.
8. What is an exception ? Write a program in Java to handle three exception in a single program.
9. What is Applet ? What are the difference between Java Application and Applet ? Explain the life cycle of Applet with an example.

10. Write short notes on the following :

- (a) Garbage Collection (GC)
- (b) Byte code
- (c) JVM (Java Virtual Machine)
- (d) JDK (Java Development Kit)



SHALINI

2017

Time : 3 hours

Full Marks : 80

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

The questions are of equal value.

*Answer any **five** questions.*

1. (a) Explain in working principle of digital computer. Describe, in detail, the components of a digital computer. Write down the different ways to get connected to the internet. Discuss the pros and cons of the internet.
(b) Describe the working of TCP/IP Protocol.
2. (a) What do you mean by pure object oriented language ? Is Java pure object oriented language ? If yes, how ?
(b) What are the data types available in Java programming language ?

3. (a) Explain the operators available in Java programming language.
(b) Write a program in java to find the largest value in an array of integers.
4. (a) What do you mean by abstract class and abstract method and why we need it ?
(b) What is method overriding ? Explain with example.
5. (a) Differentiate between Java Application and Java Applet. Explain the life cycle of an Applet with example code.
(b) Write Java code to design an applet with smiley face.
6. (a) Define Multithreading and write all methods and interfaces related to it. What is the role of multithreading in Java ?
(b) What is package ? Why do we need package ? How do we create user defined Packages ?

7. (a) What is an exception ? How do we define a try block and catch block ? How many catch blocks can we use with one try block ?
- (b) What is string with suitable example ? Write at least six string methods in Java with their use and sample code.
8. Write notes on the following :
- (a) Primitive data types
 - (d) Inheritance
 - (c) Protected access modifier
 - (d) Implicit and explicit type conversion



2016*Time : 3 hours**Full Marks : 80*

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*Answer any **five** questions.*

1. (a) What is Internet ? Explain TCP/IP architecture.
- (b) Explain Web Server, Web Browser and URL.
2. (a) What are primitive data types ? Explain each of them.
- (b) What are the different access modifiers in Java ? Explain each of them.
3. (a) Explain the main feature of object oriented programming.

(b) What is Method Overloading ? Explain with an example.

4. (a) What is Exception Handling ? How it can be handle ? How do we create user define exception ? Write a program to raise an exception when roll is invalid.

(b) Write a program to find factorial of a number using command line argument.

5. (a) What is Thread ? Explain the life cycle of thread. Give an example of multithread.

(b) Write a program to multiply two 3×3 matrices.

6. (a) What is Applet ? Explain the life cycle of applet. How we can pass parameter in applet ? Give an example.

(b) What is AWT ? What are the different AWT components in Java ?

7. (a) How does String Buffer class different from String class ? Give some examples.

(b) What is an Interface ? Write a program to illustrate the concept of multiple inheritances using interface.

8. Write notes on any **four** of the following :

- (a) Garbage Collection
- (b) Java Virtual Machine
- (c) Domain Name
- (d) Final Keyword
- (e) Modem



2015

Time : 3 hours

Full Marks : 80

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

The questions are of equal value.

*Answer any **five** questions.*

1. (a) Explain, in detail, the working of the following Internet Protocols TCP/IP and HTTP.
(b) Explain briefly about how domains are organized in internet with an example.
2. (a) Explain the salient features of java in detail.
(b) Discuss java control structures with example.
3. (a) Why is Java called machine independent language? Explain the functionality of JVM.
(b) What are string buffer? How does it differ

(Turn over)

from a string ? Give the three ways of creating a string object.

4. (a) What is interface ? What is the use of interface ? What is the difference between an Interface and an Abstract Class ?
(b) State the significance of public, private, protected, default modifiers with example.
5. (a) What is Exception ? How exception is handled in java ? Give example.
(b) What is multithreading ? Write a program to show how multithreading is achieved in java.
6. (a) Write a program in java to show how multiple inheritance can be achieved.
(b) Explain the following :
 - (i) Super keyword and Final modifier
 - (ii) Method overloading and method overriding
7. (a) Explain the life cycle of applet.
(b) Write an applet program to add two numbers using textbox and button on applet.

8. Write notes on any four of the following :

- (a) Wrapper class
- (b) AWT package
- (c) Constructor
- (d) Type casting
- (e) Garbage collection
- (f) DNS

