

- Q – 1 Answer the following
- (A) Explain various features of JAVA in detail. 07
 - (B) Justify the statement: “JAVA is platform independent.” 07
- OR
- Q – 1 Answer the following
- (A) Explain data types in java. 07
 - (B) Explain Public, Private and Protected with and example. Comment on their visibility in the code. 07
- Q – 2 Answer the following
- Explain Super keyword with example. 07
 - (B) List various OOP characteristics and describe any one in detail with an example. 07
- OR
- Q – 2 Answer the following
- (A) Declare a class called book having **author_name** as private data member. 07
Extend book class to have two sub classes called **book_publication** & **paper_publication**. Each of these classes have private member called title.
Write a complete program to show usage of dynamic method dispatch (dynamic polymorphism) to display book or paper publications of given author.
Use command line arguments for inputting data
 - (B) Compare byte streams and character streams. 07
- Q – 3 Answer the following
- (A) Write short note: Interface and its usage in JAVA. 07
 - (B) Explain with an example: Static, Final and this. 07
- OR
- Q – 3 Answer the following
- (A) Explain Buffer Stream with suitable example. 07
 - (B) Write short note: Exception Handling in Java 07
- Q – 4 Answer the following
- (A) Write Short note: Thread Priority in JAVA. 07
 - (B) Explain to create a thread using Runnable interface with example 07
- OR
- Q – 4 Answer the following
- (A) Define: Thread. Draw and Explain Life Cycle of Thread. 07
 - (B) Distinguish between Thread and Process in JAVA. 07
- Q – 5 Answer the following

(A) What is an applet? How it is different from an application. Explain with an example. 07

(B) Explain life cycle of an applet. Illustrate how to provide parameters to applet through html. 07

OR

Q – 5 Answer the following

(A) Write a program to create applet which shows Mouse Events 07

(B) Why JAVA doesn't support Pointer and Multiple Inheritance? Explain in detail. 07