



**BHARATIYA VIDYA BHAVAN'S**  
**SARDAR PATEL INSTITUTE OF TECHNOLOGY**

MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058, India  
(Autonomous College Affiliated to University of Mumbai)

End Semester Examination

Max. Marks: 100

Class: FY MCA

Course Code: MC506

Subject: JAVA Programming

Semester: II

Date: 24/05/2024

Time: 180 minutes

Instructions: (1) All questions are compulsory.  
(2) Assume any necessary data but justify the same.

Q. No.	Questions	Marks	CO	BL
		20		
Q. 1	Attempt any Five			
A.	Define Class in the JAVA.		CO1	L2
B.	List rules for abstract class		CO1	L2
C.	List Rules for Java Method Overriding		CO1	L2
D.	What is the final keyword? Define 3 scenarios where this keyword can be used		CO1	L3
E.	List any three Built-in Packages used in JAVA		CO1	L2
F.	What is polymorphism? How Polymorphism can be implemented in inheritance		CO1	L3
G.	Why usage of Java Packages are advisable in real world JAVA development?		CO1	L3
		20		
Q. 2	Attempt any Four			
A	Write the structure of Default Exception Handling		CO 2	L2
B	Compare between Throw and Throws		CO 2	L2
C	What is Inter Thread Communication? Compare the same w.r.t. Thread		CO 2	L4
D	Write the method Description used in thread 1) void start() 2) void run() 3) static void sleep() 4) static Thread currentThread(). 5) void join() 6) int getPriority() 7) void setPriority() 8) String getName().		CO 2	L2
E	Differentiate between callable and prepared statements used in JAVA for database connectivity		CO2	L4
F	write advantages and disadvantages of types of JDBC drivers used in JAVA		CO2	L2



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Q. 3 A	Write a generic servlet program to read two strings from the user. Display the proper output whether both the strings are the same or not. (Write only servlet Program)	10	CO3	L3
Q. 3 B	Write the difference between sendRedirect() and Request Dispatcher.	05	CO3	L4
Q. 3 C	Which one is preferable Generic servlet and Web servlet in implementing dynamic web pages	05	CO3	L4
Q. 4 A	Write the Rules to define Generic Methods	06	CO4	L2
Q. 4 B	Explain the use of following JSP Objects a. Request b. Response c. Out d. Session e. Application f. Config	06	CO4	L2
Q. 4 C	Write a JSP page to display today's date using the JSP page.  OR  Write a JSP page to display days of the weekdays based on the input from the user in the number. E.g if the user presses 1 then it will display Monday and so on. Note: Assume Appropriate data variables required.	08	CO4	L5
Q. 5 A	write a program demonstrating the POJO Concept to display the class Book. Set the values of books attribute and display the values of Books. (assume appropriate attributes of Book class)	06	CO4	L3
Q. 5 B	Draw and Explain Spring Framework Runtime.	06	CO4	L3
Q. 5 C	Compare between BeanFactory and ApplicationContext. Write only three points of comparison. Explain the statement ApplicationContext applicationContext = new ClassPathXmlApplicationContext("beans.xml");	08	CO4	L4