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KAMALA INSTITUTE OF TECHNOLOGY & SCIENCE, SINGAPUR**23IT28PC405****II.B. Tech. II. Semester Regular/Supplementary Examinations, April/May- 2026****JAVA PROGRAMMING****(IT)****Time: 3 Hours****Max. Marks: 60**

Note: Question paper consists of Part-A & Part-B.

i) **Part-A** for 10M, ii) **Part-B** for 50marks

- Part A** is compulsory, consisting of 10 sub questions from all units carrying equal marks.
- Part-B** consists of **10 questions** (numbered from 2 to 11) carrying **10marks** each. From each unit there are 2 questions and the students should answer one of them. Hence the student should answer **5 questions** from **Part-B**.

PART-A (10Marks)			
Q. No	Questions	Marks	BTL
1.a)	What are Generics in Java?	1M	1
1.b)	What is the use of 'this' keyword?	1M	2
1.c)	Define Error in Java.	1M	1
1.d)	What is the use of finally block?	1M	2
1.e)	What is CLASSPATH?	1M	1
1.f)	Define Collection.	1M	2
1.g)	What is thread priority?	1M	1
1.h)	Define synchronization.	1M	2
1.i)	What is AWT?	1M	1
1.j)	What is an event listener?	1M	2
PART-B (50Marks)			
Q.No	Questions	Marks	BTL
2. a)	Explain Java features and write a program demonstrating control statements.	5M	2
b)	Explain OOP principles in Java with examples (Encapsulation and Inheritance).	5M	4
OR			
3. a)	Describe data types, variables, and arrays in Java with examples.	5M	3
b)	Explain polymorphism and method overriding with suitable examples.	5M	4
OR			
4. a)	Explain exception handling mechanism with multiple catch blocks.	5M	2
b)	Describe built-in exceptions with examples.	5M	4
OR			
5. a)	Explain File class and Byte Streams in Java.	5M	3
b)	Explain Random Access File and its operations.	5M	4
6. a)	Explain packages in Java and how to import them.	5M	2

b)	Describe utility classes like Scanner, Random, and Date.	5M	4
OR			
7. a)	Explain collection interfaces and implementation classes.	5M	3
b)	Differentiate Comparable and Comparator with examples.	5M	4
8. a)	Explain Java thread life cycle and thread creation methods.	7M	2
b)	Describe synchronization and inter-thread communication.	3M	4
OR			
9. a)	Explain JDBC architecture and types of drivers.	5M	3
b)	Write steps to develop a JDBC application and create a table.	5M	4
10.a)	Explain applet life cycle and types of applets.	5M	2
b)	Describe AWT components and layout managers.	5M	4
OR			
11.a)	Explain Swing architecture and its advantages over AWT.	5M	2
b)	Describe event handling in Java using delegation model.	5M	4

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