

Hi-Tech Institute of Engineering & Technology

DEPARTMENT OF MCA
(SEM- II) EVEN SEMESTER 2022-23

Subject Code: KCA-202

Subject Name: OOP

Faculty Name: Bhasker Sharma

Time: 90 Minutes

Total Marks: 50

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION-A

1. Attempt all question in brief.

2x 10 = 20

Q.No	Question	Marks	CO
a.	Explain the major features of Object-Oriented Programming.	2	1
b.	How JAR files work?	2	2
c.	Explain difference between try, catch and finally keyword in java.	2	3
d.	Draw hierarchical diagram of java.net package.	2	3
e.	Explain types of ways to create thread in java.	2	4
f.	Object is an instance of class, justify your answer.	2	1
g.	Write 3 use of encapsulation in OOPs.	2	2
h.	Explain generic programming concepts in java.	2	4
i.	Draw hierarchical diagram of java AWT classes.	2	5
J.	What is the difference between JPanel and JFrame in java swing?	2	5

SECTION-B

2. Attempt any FOUR of the following:

10 x 3 =30

Q.No	Question	Marks	CO
a.	What is use of final keyword? Explain with proper example.	10	1
b.	What is Constructor? Why constructor does not have return type as method returns? Explain it with an example.	10	2
c.	Write java program to copy one image to another	10	3
d.		10	4
e.		10	5

SECTION-C3. Attempt any ONE part of the following:

10x1 = 10

Q.No	Question	Marks	CO
a.	Explain the compilation and execution process of java program with proper diagram.	10	1
b.	Explain 10 features of java Programming language.	10	1

4. Attempt any ONE part of the following:

10x1 = 10

Q.No	Question	Marks	CO
a.	Define polymorphism? Explain function overloading and overriding as runtime and compile time polymorphism in Java? Give an example for it.	10	2
b.	What do you mean by Multiple Inheritance with example?	10	2

5. Attempt any ONE part of the following:

10x1 = 10

Q.No	Question	Marks	CO
a.	Given are two one-dimensional arrays A and B which are stored in ascending order. Write program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order.	10	3
b.	Explain the use of buffered reader buffered writer classes with suitable example.	10	3

6. Attempt any ONE part of the following:

10x1 = 10

Q.No	Question	Marks	CO
a.	Discuss generic bounded class with the help of a suitable example.	10	4
b.	what is more advisable to create a thread, by implementing a Runnable interface or by extending Thread class?	10	4

7. Attempt any ONE part of the following:

10x1 = 10

Q.No	Question	Marks	CO
a.	Define the following terms in context of AWT (i) canvas (ii) Event (iii) Frame (iv) Dialog (v) Button	10	5
b.	What do you understand by event handling in Java? Explain mouse or keyboard events with an example.?	10	5