MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
II B. Tech I Sem II Mid Question Bank (MR20)

Subject: OOP Through JAVA   Subject Code: **A0510**

Branch: CSE, CSE(DS), CSE(CS), CSE(AIML), CSE(IOT)

Module III

S.No	Question	Bloom's Taxonomy Level	CO
1.	What is the difference between an error and an exception? Explain different keywords that are available in JAVA for exception handling with an example?	Understanding	3
2.	How to create user defined exceptions? Explain with an example.	Understanding	3
3.	Define an exception and explain about checked and unchecked exceptions in Java.	Remember	3
4.	Explain about Built in Exceptions in exception handling.	Understanding	3

Module IV

S.No	Question	Bloom's Taxonomy Level	CO
1.	Define thread? Explain the lifecycle of thread	Remember	4
2.	What are the different ways of creating a thread? Explain with example.	Understanding	4
3.	Define synchronization in JAVA? Explain with example.	Remember	4
4.	Explain about Daemon Thread with example?	Applying	4
5.	What is Array List? Explain with an example.	Understanding	4
6.	Explain about LinkedHashset with an example.	Applying	4
7.	What is Priority Queue? Explain with an example.	Understanding	4
8.	What are the methods available in EnumSet? Explain with an example.	Understanding	4

Module V

S.No	Question	Bloom's Taxonomy Level	CO
1.	What is an event handling in Java? Explain with Example.	Applying	5
2.	Develop a java program to demonstrate mouse events.	Analyzing	5
3.	Explain the methods in Key Listener interface with an Example.	Applying	5
4.	Explain the java Adapter class with Example.	Understanding	5
5.	Differentiate between AWT and Swings.	Analyzing	5
6	Explain about JFrame class with an example.	Understanding	5
7.	What are the constructors in BorderLayout class? Explain with example.	Understanding	5

8.	What is the importance of Swings and explain about JButton class and its methods?	Remembering	5

Signature of Faculty   **Signature of the HOD**

Objective Questions

S.No	Question	Answer
1	What is an exception? a) abnormal Condition b) acquiring properties of another c) some test condition d) for easy running.	
2	When does Exceptions in Java arises in code sequence? a)Run Time b) Compilation Time c) Both d) None of the mentioned	
3	Which of these keywords is not a part of exception handling? a) try b) finally c) thrown d) catch	
4	Which of these keywords must be used to monitor for exceptions? a) try b) finally c) throw d) catch	
5	Which of these keywords must be used to handle the exception thrown by try block in some rational manner? a) try b) finally c) throw d) catch	
6	From the following which is not in the control of User a)Exception b)Error c)both d)None.	
7	Which of these keywords is used to manually throw an exception? a) try b) finally c) throw d) catch	

8	What will be the output of the following Java program?
	 class exception_handling{
	 public static void main(String args[]){
	 try{
	 System.out.print("Hello" + " " + 1 / 0);
	 } catch(ArithmeticException e) {
	 System.out.print("World");
	 }}}
	 a) Hello b) World c) HelloWorld d) Hello World	

	What will be the output of the following Java program?	

9	class exception_handling{
	public static void main(String args[]){
	try{
	int a, b;
	b = 0;
	a = 5 / b;
	System.out.print("A");
	} catch(ArithmeticException e) {
	System.out.print("B");
	}}}
	a) A b) B c) Compilation Error d) Runtime Error	

10	In java multi-threading, a thread can be created by a)Extending Thread class b)Implementing Runnable interface c)Using both d)None	

11	What will be the output of the following Java program?
	class exception_handling{
	public static void main(String args[]){
	try {
	int a, b;
	b = 0;
	a = 5 / b;
	System.out.print("A");
	} catch(ArithmeticException e){
	System.out.print("B");
	}finally {
	System.out.print("C");
	}}}
	a) A b) B c) AC d) BC	

12	In which of the following package Exception class exist? a)java.file b) java.lang c) java.io d) java.util	
13	Which exception is thrown when divide by zero statement executes? a) NumberFormatException b) NullPointerException c) ArithmeticException d)None of these	
14	Can a try block have more than one catch blocks? a) Yes b)No c)May be d)Can't say	
	Can a try block be nested in another try block?	

15	a) Yes b)No c)May be d)Can't say	
16	Can we define our own exceptions? a)Yes b)No c)May be d)Can't say	
17	What exception thrown by parseInt() method? a) ArithmeticException b)ClassNotFoundException c)NullPointerException d)NumberFormatException	
18	Which of these operator is used to generate an instance of an exception than can be thrown by using throw? a) new b) malloc c) alloc d) thrown	
19	Which of these keywords is used to by the calling method to guard against the exception that is thrown by called function? a) try b) throw c) throws d) catch	
20	At runtime, error is recoverable. a)True b) False c) May be d) Can't say	
21	Which of these statements is incorrect? a)try block need not to be followed by catch block. b) try block can be followed by finally block instead of catch block c) try can be followed by both catch and finally block. d) try need not to be followed by anything.	

22	What is the output of this program?
	class exception_handling{
	public static void main(String args[]){
	try {
	int i, sum;
	sum = 10;
	for (i = -1; i < 3 ;++i){
	sum = (sum / i);
	System.out.print(i);
	}} catch(ArithmeticException e){
	System.out.print("0");
	}}}
	a)-1 b)0 c)-10 d)-101	

	What is the output of this program?	

23	```java
class exception_handling{
public static void main(String args[]) {
try{
int a = args.length;
int b = 10 / a;
System.out.print(a);
try{
if (a == 1)
a = a / a - a;
if (a == 2)   {
int []c = {1};
c[8] = 9;
}} catch (ArrayIndexOutOfBoundException e){
System.out.println("TypeA");
} catch (ArithmeticException e){
System.out.println("TypeB");
}}}}
```
a) TypeA           b) TypeB           c) Compile Time Error           d) 0Typeb | |
| 24 | What is the output of this program?
```java
public class Bits{
public static void main(String[] args)     {
try{
return;
} finally{
System.out.println( "Finally" );
} } }
```
a)Finally   b)Compilation fails
c)The code runs with no output   d)An exception is thrown at runtime | |
| 25 | What is the output of this program?
```java
public class San {
public static void main(String args[])    {
try      {
System.out.print("Hello world ");
}     finally      {
System.out.println("Finally executing ");
}}}
```
a)The program will not compile because no exceptions are specified
b)The program will not compile because no catch clauses are specified
c)Hello world   d)Hello world Finally executing | |

26	What is the name of the method used to start a thread execution? a) run();　　　　b) init();　　　　c)start();　　　　d) resume();	
27	If we call start() method new thread gets created? a)true　　　b) False　　　c) May be true　　　d) None.	
28	If we call run() method new thread gets created? a)true　　　b) False　　　c) May be true　　　d) None.	
29	What is the default priority of main thread? a)2　　b)3　　c)4　　d)5	
30	How many types of multitasking are there? a)2　　b)3　　c)4　　d)5	
31	Threads are _____ tasks a)Heavy weight　　　　b) Light Weight　　　c) both　　　d) None	
32	Processes are _____ tasks a)Heavy weight　　b) Light Weight　　c) both　　d) None	
33	Performance will be improved if we use multithreading. a)yes　　　b) No　　　c) May be　　d) None.	
34	What is multithreaded programming? a)It's a process in which two different processes run simultaneously. b)It's a process in which two or more parts of same process run simultaneously. c)It's a process in which many different processes are able to access same information. d)It's a process in which a single process can access information from many sources.	
35	is start() method is available in Runnable Interface? a)Yes　　　b) No　　　c) May be　　d) None	
36	In java synchronization applied in how many ways a)2　　　b) 3　　　c)4　　　d)5	
37	Drawbacks of synchronization a)less-performance　　　b) system gets slow　c) both　　　d) none.	

38	Which of these methods of Thread class is used to find out the priority given to a thread? a) get() b) ThreadPriority() c) getPriority() d) getThreadPriority()	
39	Which of these methods of Thread class is used to Suspend a thread for a period of time? a) sleep() b) terminate() c) suspend() d) stop()	
40	Which function of pre-defined class Thread is used to check weather current thread being checked is still running? a) isAlive() b) Join() c) isRunning() d) Alive()	
41	Daemon thread runs in a)Background b) Foreground c) Both d) none	
42	Which method must be implemented by a Java thread? a)Execute b)run c) resume d) sleep	

43	What will be the output of the following Java code?
	class multithreaded_programing {
	public static void main(String args[]) {
	Thread t = Thread.currentThread();
	t.setName("New Thread");
	System.out.println(t);
	}
	}
	a) Thread[5, main] b) Thread[New Thread,5] c) Thread[main,5,main]
	d) Thread[New Thread,5,main]	

44	What is the priority of the thread in output in the following Java program?
	class multithreaded_programing {
	public static void main(String args[]) {
	Thread t = Thread.currentThread();
	t.setName("New Thread");
	System.out.println(t.getName());
	}
	}
	a) main b) Thread c) New Thread
	d) Thread[New Thread,5,main]	

	What is the name of the thread in output in the following Java program?	

45	class multithreaded_programing {
	public static void main(String args[]) {
	Thread t = Thread.currentThread();
	System.out.println(t.getPriority());
	}
	}
	
	a) 0 b) 1 c) 4 d) 5	

46	What is the name of the thread in output in the following Java program?
	class multithreaded_programing {
	public static void main(String args[]) {
	Thread t = Thread.currentThread();
	System.out.println(t.isAlive());
	}
	}
	
	a) 0 b) 1 c) true d) false	

47	Which method must be defined by a class implementing the java.lang.Runnable interface? a) public void run() b)void run() c)void run(int priority) d)public void start()	
48	_____is start() method is available in Runnable Interface? a)Yes b) No c) May be d) None	
49	Which method registers a thread in a thread scheduler? a) run(); b) construct(); c) start(); d)register();	
50	What is Daemon Thread? a) sevice accessor b) service provider c) both d)none	
51	Which of these packages contain all the collection classes? a) java.lang b) java.util c) java.net d) java.awt	
52	Which of these classes is not part of Java's collection framework? a) Maps b) Array c) Stack d) Queue	
53	Which of this interface is not a part of Java's collection framework? a) List b) Set c) SortedMap d) SortedList	
54	Which of these methods deletes all the elements from invoking collection? a) clear() b) reset() c) delete() d) refresh()	
55	What is Collection in Java? a) A group of objects b) A group of classes c) A group of interfaces d) None of the mentioned	
56	What will be the output of the following Java program?	

```
import java.util.*;
    class Array
    {
        public static void main(String args[])
        {
    int array[] = new int [5];
            for (int i = 5; i > 0; i--)
                array[5-i] = i;
    Arrays.fill(array, 1, 4, 8);
            for (int i = 0; i < 5 ; i++)
                System.out.print(array[i]);
        }
    }
```
a) 12885   b) 12845   c) 58881   d) 54881

57	What will be the output of the following Java program?	

```
import java.util.*;
class Bitset
{
    public static void main(String args[])
    {
        BitSet obj = new BitSet(5);
        for (int i = 0; i < 5; ++i)
            obj.set(i);
        obj.clear(2);
        System.out.print(obj);
    }
}
```
a) {0, 1, 3, 4}   b) {0, 1, 2, 4}
c) {0, 1, 2, 3, 4}   d) {0, 0, 0, 3, 4}

58	Which of these standard collection classes implements a dynamic array? a) AbstractList b) LinkedList c) ArrayList d) AbstractSet	
59	Which of these class can generate an array which can increase and decrease in size automatically? a) ArrayList() b) DynamicList() c) LinkedList() d) MallocList()	
60	Which of these method can be used to increase the capacity of ArrayList object manually? a) Capacity() b) increaseCapacity() c) increasecapacity() d) ensureCapacity()	
61	Which of these method of ArrayList class is used to obtain present size of an object? a) size() b) length() c) index() d) capacity()	
62	Which of these methods can be used to obtain a static array from an ArrayList object? a) Array() b) covertArray() c) toArray() d) covertoArray()	

63	Which of these method is used to reduce the capacity of an ArrayList object? a) trim()　　　b) trimSize()　　　c) trimTosize()　　　d) trimToSize()	
64	Which of these standard collection classes implements a linked list data structure? a) AbstractList　　b) LinkedList　　c) HashSet　　d) AbstractSet	
65	Which of these classes implements Set interface? a) ArrayList　　　b) HashSet　　　c) LinkedList　　d) DynamicList	
66	Which of these method of HashSet class is used to add elements to its object? a) add()　　b) Add()　　c) addFirst()　　d) insert()	
67	Which of these methods can be used to delete the last element in a LinkedList object? a) remove() b) delete() c) removeLast() d) deleteLast()	
68	Which of this method is used to change an element in a LinkedList Object? a) change() b) set() c) redo() d) add()	
69	What is hierarchy of EnumSet in java? a)java.lang.Object　　　　　b)java.util.AbstractCollection c)java.util.AbstractSet　　　d)java.util.EnumSet	
70	What does the expression float a = 35 / 0 return? a)0　　　b)Not a Number　　　c)Infinity　　　d)Run time exception	
71	Which of the following creates a List of 3 visible items and multiple selections abled? a)new List(false, 3)　　　　　　b)new List(3, true) c)new List(true, 3)　　　　　　d)new List(3, false)	
72	What is the initial quantity of the ArrayList list? a)5　　　b)10　　c)0　　　d)100	

73	Which of the following is a valid syntax to synchronize the HashMap?
	 a)Map m = hashMap.synchronizeMap();
	 b)HashMap map =hashMap.synchronizeMap();
	 c)Map m1 = Collections.synchronizedMap(hashMap);
	 d)Map m2 = Collection.synchronizeMap(hashMap);	

74	**int** values[ ] = {1,2,3,4,5,6,7,8,9,10}; **for**(**int** i=0;i< Y; ++i) System.out.println(values[i]); Find the value of value[i]? a)10　　　b)11　　　c)15　　　d)None of the above	

75	What will be the output of the following program?
	 abstract class MyFirstClass
	 {
	 　　abstract num (**int** a, **int** b) { }
	 }	

	a)No error b)Method is not defined properly c)Constructor is not defined properly d)Extra parentheses	
76	Which of these packages contains all the classes and methods required for even handling in Java? a) java.applet b) java.awt c) java.event d) java.awt.event	
77	What is an event in delegation event model used by Java programming language? a) An event is an object that describes a state change in a source. b) An event is an object that describes a state change in processing. c) An event is an object that describes any change by the user and system. d) An event is a class used for defining object, to create events.	
78	Which of these methods are used to register a keyboard event listener? a) KeyListener() b) addKistener() c) addKeyListener() d) eventKeyboardListener()	
79	Which of these methods are used to register a mouse motion listener? a) addMouse() b) addMouseListener() c) addMouseMotionListner() d) eventMouseMotionListener()	
80	What is a listener in context to event handling? a) A listener is a variable that is notified when an event occurs. b) A listener is a object that is notified when an event occurs. c) A listener is a method that is notified when an event occurs. d) None of the mentioned	
81	Event class is defined in which of these libraries? a) java.io b) java.lang c) java.net d) java.util	
82	Which of these methods can be used to determine the type of event? a) getID() b) getSource() c) getEvent() d) getEventObject()	

| 83 | Which of these class is super class of all the events?

a) EventObject   b) EventClass c) ActionEvent   d) ItemEvent | |
|---|---|---|
| 84 | Which of these events will be notified if scroll bar is manipulated?

a) ActionEvent   b) ComponentEvent c) AdjustmentEvent

d) WindowEvent | |
| 85 | Which of these events will be generated if we close an applet's window?

a) ActionEvent   b) ComponentEvent c) AdjustmentEvent

d) WindowEvent | |
| 86 | Give the abbreviation of AWT?

a) Applet Windowing Toolkit   b) Abstract Windowing Toolkit

c) Absolute Windowing Toolkit   d) None of the above | |
| 87 | Which is the container that contain title bar and can have MenuBars. It can have other components like button, textfield etc.?

a) Panel   b) Frame   c) Window   d) Container | |
| 88 | Which is a component in AWT that can contain another components like buttons, textfields, labels etc.?

a) Window   b) Container c) Panel   d) Frame | |
| 89 | AWT is used for GUI programming in java?

a) True   b) False | |
| 90 | The following specifies the advantages of_____

It is lightweight.

It supports pluggable look and feel.

It follows MVC (Model View Controller) architecture. | |

	a) Swing b) AWT c) Both A & B d) None of the above	
91	Swing is not a part of JFC (Java Foundation Classes) that is used to create GUI application? a) True b) False	
92	Which class provides many methods for graphics programming? a) java.awt b) java.Graphics c) java.awt.Graphics d) None of the above	
93	These two ways are used to create a Frame By creating the object of Frame class (association) By extending Frame class (inheritance) a) True b) False	
94	The Following steps are required to perform 1) Implement the Listener interface and overrides its methods 2) Register the component with the Listener a) Exception Handling b) String Handling c) Event Handling d) None of the above	
95	In which places can put the event handling code a) Same class b) Other class c) Annonymous class d) All mentioned above	
96	Which package provides many event classes and Listener interfaces for event handling? a) java.awt b) java.awt.Graphics c) java.awt.event d) None of the above	
97	To use the ActionListener interface it must be implemented by a class there are several ways to do that find in the following? a) Creating a new class b) using the class the graphical component c) an anonymous inner class d) All mentioned above	
98	The ActionListener interface is not used for handling action events? a) True b) False	

99	The ActionListener interface is used for handling action events,For example,it's used by a a) JButton b) JCheckbox c) JMenuItem d) All of these	
100	The Java ActionListener is notified against a) Action b) Method c) Action event d) event	
101	_____Creates a table with the specified data a) JTable(Object[][] rows, Object[] columns) b) JTable() c) Table() d) Table(Object[][] rows, Object[] columns)	
102	_____Creates a table with empty cells a) JTable(Object[][] rows, Object[] columns) b) JTable() c) Table() d) Table(Object[][] rows, Object[] columns)	
103	_____Creates a JTree with a sample model a) JTree() b) JTree(Object[] value) c) JTree(TreeNode root) d) JTree(Node root)	
104	_____Creates a JTree with every element of the specified array as the child of a new root node a) JTree() b) JTree(Object[] value) c) JTree(TreeNoderoot) d) JTree(Node root)	
105	_____Creates a JTree with the specified TreeNode as its root, which displays the root node a) JTree() b) JTree(Object[] value) c) JTree(TreeNoderoot) d) JTree(Node root)	
106	___Creates a vertical scrollbar with the initial values a) JScrollBar() b) JScrollBar(int orientation) c) JScrollBar(int orientation, int value, int extent, int min, int max) d) ScrollBar()	

107	_____Creates a scrollbar with the specified orientation and the initial values a) JScrollBar() b) JScrollBar(int orientation) c) JScrollBar(int orientation, int value, int extent, int min, int max) d) ScrollBar()	
108	_____Creates a scrollbar with the specified orientation, value, extent, minimum, and maximum. a) JScrollBar()b) JScrollBar(int orientation) c) JScrollBar(int orientation, int value, int extent, int min, int max) d) ScrollBar()	
109	_____Creates a JComboBox that contains the elements in the specified array a) JComboBox() b) JComboBox(Object[]items) c) JComboBox(Vector<?> items) d) JComboBox(items)	
110	_____Construct a new JPasswordField initialized with the specified text and columns. a) JPasswordField(int columns) b) JPasswordField(String text) c) JPasswordField(String text, int columns) d) JPasswordField()	
111	_____Constructs a new JPasswordField initialized with the specified text. a) JPasswordField(int columns) b) JPasswordField(String text) c) JPasswordField(String text, int columns) d) JPasswordField()	
112	_____Constructs a new JPasswordField, with a default document, null starting text string, and 0 column width. a) JPasswordField(int columns) b) JPasswordField(String text) c) JPasswordField(String text, int columns) d) JPasswordField()	
113	_____Constructs a new empty JPasswordField with the specified number of columns. a) JPasswordField(int columns) b) JPasswordField(String text) c) JPasswordField(String text, int columns) d) JPasswordField()	
114	_____ is used to get the Icon of the button a) Gettext() b) Settext() c) Geticon() d) Seticon()	

115	_____are a set of GUI components which simplify the development of desktop applications. a) JFC　　　　b) API　　　c) AWT　　　　　　d) JSwing	
116	Which of the following component not supported by AWT a) Button　　b) Table　　　　　　c) Textfiled　d) Label	
117	Which of the following is a generic container object which can contain other AWT components. a) Panel　　　　　b) Window　c) Frame　　　　　d) container	
118	Which object is a top-level window with no borders and no menubar. a) Panel　　　　　b) Window　c) Frame　　　　　d) container	
119	_____provides space in which any other component can be placed a) Panel　　　　　b) Window　c) Frame　　　　　d) container	
120	A _____ is a top-level window with a title and a border a) Panel　　　　　b) Window　c) Frame　　　　　d) container	
121	____manages the components in form of a rectangular grid. a) Flow　　　　　b) Card　　　　　c) Border　　d) Grid	
122	_____layouts the components in a directional flow. a) Flow　　　　　b) Card　　　　　c) Border　　d) Grid	
123	Which layout treats each component in the container as a card. a) Flow　　　　　b) Card　　　　c) Border　　d) Grid	
124	The _____layout　arranges the components to fit in the five regions a) Flow　　　　　b) Card　　　　c) Border　　d) Grid	
125	The layout manager is associated with Container a) Class　　　　　b) Methods　c) Parameters　d) objects	