# (Object Oriented Programming Through Java)

# **Question Bank**

## Unit 1

MCQ Java is developed by	
a)Sun Microsystems of US	
c)Adobe	d) None
is one	of the inventors of Java.
a) Dannis Ritchie	b) James Gosling
c) Bjarne Straustrup	d) Balagurusamy
	ne java features that enables java program to run anywhere
anytime.	h) Mulkishaa da d
a)Object-Oriented	b) Multithreaded
c)Platform-Independent	d) Dynamic & Extensible
is one	of the java features that can handle multiple tasks
simultaneously.	
	b) Dynamic & Extensible
c)Platform-Independent	d) Multithreaded
Java compiler translates so	urce code into
<u> </u>	ine Code) b) Bitcode
c) Machine Code	d) User code
Java interpreter translates	into machine code.
a) Bitcode	b) Bytecode(Virtual Machine Code)
c) Machine Code	d) User code
.) Macinile Code	d) Oser code
1 1	intermediate code known as
a)Bitcode b)	
c)Bytecodes d)	User code
tool helps u	is to find errors in our programs.
a)jhelp b) ja	nvah
c)javap d) jo	db
The includ	les hundred of classes and methods grouped into several
function packages.	
a)API b) JV	
c)IAVAC d) II	OE

10	The java interpreter uses method before any objects are created. a)Class b) Main
	c)Constructor d) All of above
11	is use for naming classes, methods, variables etc in a program.
	a)Operator b) Separator b)Identifier d) Constructor
12	is reserved keyword in java.
	a)Abstract b) Extends
	b)Package d) All of above
13	Java provides extensive set of classes, arranged in
	a)Package b) Library file
	c)Template class d) None
14	The process of converting one date type to another is called
	a)Translating b) Casting
	c)Compiling d) Declaring
15	Java does not support
	a)Operator overloading b) Global variable
	c)Multiple inheritance d) All of above
16	Casting from byte to data type, the result is no loss information.
	a)short b) int
	c)long d) all of above
17	Casting from shot to data type, the result is no loss information.
	a)byte b) int
	c)long d) double
18	refer to fix value that does not change during the execution of a
10	program.
	a)variables b) constants
	c)identifiers d) integer
19	operators are used to construct mathematical expression as in algebra.
	a)Relational b) Mathematical
	c)Arithmetic d) Logical
20	Which constraint must be considered at the time of variable declaration?
	a)It should not be keyword b) It must not begin with digit
	c)White space not allowed d) All of above
21	The comparisons can be done with help of operator.
41	The comparisons can be done with help of operator.

	a)Relational c)Arithmetic	<ul><li>b) Mathematical</li><li>d) Assignment</li></ul>
22	Which of the following is n	ot assignment operator?
	a) $+=$ b) =	=
	c)%= d) =	
23	operator is	used to construct conditional expression.
	a)Dot(.)	b) instanceof
	c)Ternary(?:)	d) None
24	Which statement is use to te	erminate loop early?
	a)terminate	b) continue
	c)skip	d) break
25	Which statement is use to sl	kip the loop and continue with the next iteration?
	a)continue	b) terminate
	c)skip	d) break
26	is a group of co	ntiguous or related data items that share a common name.
	a)Variable	b) Array
	c)Constant	d) none
27	Which of the following is the	ne correct declaration statement in java program?
	<pre>a) int num=new int[5]</pre>	b) int num=new num[5]
	c) int[] num=new int[5]	d) None
28	Java	-
	a)Only compiles	b) Only interprets
	c)Compiles and then interpr	rets d) Interprets & then compiles
29	JVM stands for	
	a)Java Virtual Method	b) Java Virtual Machine
	c)Java Variable & Methods	d) Java Versatile Machine
	Answers of MCQ:	
	1. (a), 2. (b), 3. (c), 4. (d), 5	. (a), 6. (b), 7. (c), 8. (d), 9. (a), 10. (b), 11. (c), 12. (d),
		(d), 17. (a), 18. (b), 19. (c), 20. (d), 21. (a), 22. (b), 23. (c),
	24. (d), 25. (a), 26. (b), 27.	(c), 28. (c), 29. (b)

- Short Questions
  Java is platform-independent and portable. Justify.
  Java is distributed language Justify.

- 3 Java is dynamic and extensible language Justify.
- 4 What is JVM (Java Virtual Machine)?
- 5 List out Java development tools and explain any one from it.
- **6** List out Java API and define any one of it.
- 7 Draw the Java program structure.
- **8** Write down the rules for variable naming.
- **9** What is meaning of automatic type conversion?
- 10 List out the types of operators used in Java.
- 11 How can you use ternary operator?
- 12 Define the break and continue statements.
- 13 List out the features of Java.
- 14 List the primitive and non-primitive data types used in Java.
- Write the syntax of any one of the following loops while, do...while, for loop.

#### **Long Questions**

- 1 What is Java? Explain the features of Java.
- 2 Describe the Java environment.
- 3 Explain the structure of Java program.
- 4 Explain the data types available in Java.
- 5 Explain type casting with example.
- **6** Explain the scope of variable.
- 7 List out the decision making statements available in Java. Explain with example.
- **8** List out the looping statements available in Java. Explain with example.
- **9** Explain break and continue statements with example.
- 10 List out the operators. Explain anyone in detail.

#### Unit -2

1	MCQ Range of short variable is _	
_	a) -128 to 128	b) -128 to 127
	c) -32768 to 32767	d) -32768 to 32768
2	is defau	t access specifier in JAVA.
	a)friendly	b) private
	c) protected	d) public
3	variables and	methods can be called without using the objects.
	a)static	b) final
	c)abstract	d) none of the above
4	Which of the following star	ements is true?
-	a) Java supports operator ov	

c) Java supports pointe	d) Java supports multiple inheritance	
•	in Java to define a constant?	
a) static	b) final	
c) abstract	d) private	
If two methods ha	ve same name but different parameter list then it i	S
a) Method overriding	b) Method overloading	
c)Operator overloadin	d) None of these	
cons	tructor is created when object of particular class is created.	
a)Default	b) Parameterized	
c)Copy	d) None of these	
inh	eritance is not supported by JAVA.	
a)Multiple	b) Multi level	
c)Hierarchical	d) Hybrid	
The mechanism of der	iving a new class from an old one is called	
a)Method overriding	b) Method overloading	
,	g d) Inheritance	
keyword do	es not allow a method to be override in the subclass.	
a)public	b) abstract	
c)final	d) static	
methods m	ast be override in the subclass.	
a)public	b) final	
c)abstract	d) static	
The subclass constructuperclass.	or uses the keyword to invoke the constructor of the	e
a)super	b) Final	
c)static	d) public	
is a speci	al method in java that enables an object to initialize itself when	ı
it is created.	, , , , , , , , , , , , , , , , , , ,	
a)constructor	b) destructor	
c)static	d) final	
defines only	abstract methods and final fields.	
a)Interface	b) Final class	
c)Abstract class	d) Class	
,	,	

- 15 \_\_\_\_\_ keyword is used to inherit a class.
  - a)extend

b) extends

c)implement

- d) implements
- 16 We cannot create a subclass of class.
  - a)Abstract

b) public

c)static

d) final

#### **Answers of MCQ:**

#### **Short Questions**

- 1 Write various types of inheritance.
- 2 Define method overloading.
- 3 Define fields and methods of a class in JAVA.
- 4 Define constructor. How do we invoke constructor in JAVA?
- 5 Define method overriding.
- **6** Define Inheritance. How it is created in Java?
- 7 Define interface. Write the syntax for implementing an interface in a class.
- **8** What is the meaning of the *static* keyword?
- **9** What are the restrictions with static methods?
- 10 Differentiate between Classes and Interface.
- 11 Define the final variable and final methods.
- 12 Define class. How does it accomplish data hiding?
- What is the meaning of the *abstract* keyword?
- What are the conditions for using super() method.

#### **Long Questions**

- 1 Define class. How do classes help us to organize our programs? What are the three parts of a simple, empty class?
- 2 What is a constructor? What are its special properties?
- 3 Define inheritance. Describe different forms of inheritance.
- **4** Explain super and final keyword with example.
- 5 Describe the various forms of implementing interface. Give an example of JAVA code for each case.
- **6** When do we declare a method or class abstract? Discuss with one Example.
- 7 Write short note on method overloading and method overriding.

## Unit - 3

MCQ All syntax errors are know	/n as	errors.
a) Run-time	b) Exception	_
c) Logical	d) Compile-time	
"Use of undeclared variab	les" is the	type of error.
a)Logical	b) Exception	
c)Run-time	d) Compile-time	
"Divided an integer by zer	ro" is the example of	ftype of error.
a)Compile-time	b) Run-time	
c)Logical	d) Exception	
"Converting invalid string	to a number" is the	type of error.
a)Run-time	b) Exception	v.
c)Logical	d) Compile-time	
a)Exception handling c)Try	b) BufferedRead d) Catch	•••
is caused	when a conversion l	between string and number fails.
a)NullPointerException		FormatException
c)IOException	d) Security	•
	is caused by bad arr	ray indexes.
a)ArrayStoreException	b) Arithmet	icException
c)IOException	d) ArrayInd	exOutOfBoundsException
presents a u	niform, easy-to-use,	object-oriented interface between
the program and the input	output devices.	
a)Stream	b) Outpu	
c)Input	d) Reade	r
		teUnicode characters.
a)4 - bit	1 \ 1 < 1 \	
c)2 - bit	b) 16 – bit d) 8 – bit	

provido	a way to "hide" classes thus preventing other programs or	
	g classes that are meant for internal use only.  b) Thread	
c)Constructor	d) Interface	
Which package is used to	for creating and implementing applets.	
a)java.lang	b) java.util	
c)java.applet	d) java.awt	
	s used to find the nth no. of character of given string s1.	
a)s1.index(n) c)s1.length()	b) s1.substring(n) d) s1.charAt(n)	
Answers of MCQ:		
_	), 5. (a), 6. (b), 7. (d), 8. (a), 9. (b), 11. (c), 12. (d)	
<b>Short Questions</b>		
Give examples of the Ru		
List out the different typ	1	
Define the terms: try, catch.  Define the term - stream, reader stream classes, writer stream classes.		
Explain any two string methods.		
List the java API packag		
List the methods of Read		
Define the term – Excep	otion and Exception Handling.	
Long Questions		
Explain Arithmetic Exce	eption with an example.  lain the syntax of try block and catch block with an	
example.	and the syntax of try block and catch block with an	
Describe concept of stre	am.	
-	classes and Writer stream classes.	
Write a short note on Ch		
•	ls of String class by giving an example.	
Describe the try and cate	are the benefits of package? Explain Java API packages.	
Describe the try and each	on statements in detain.	
	Unit 4	
MCQ		
•	eter is used to specify the applet class name.	
a)classname	b) code d) codebase	
c) name	a) codebase	

2	•	rameter to set the background color as red.	
	a)setColor(RED)	b) $Color = RED$	
	c) Color.RED	d) new Color(RED)	
	Through the applet life cycle	state occur only once.	
	a) Running	b) Idle	
	c) Born	d) None of these	
	is a passive	e control.	
	a) TextField	b) Label	
	c) Button	d) None of these	
	is a single	line edit control.	
	a) TextField	b) Label	
	c) Button	d) TextArea	
	In component we	can select multiple items.	
	a) Option Button	b) Choice	
	c) List	d) None of these	
	In List, if no item is selected then	the method getSelectedIndex() returns	
	a) 0	b) 1	
	c) -1	d) NULL	
	To implement pop up style single	content selection, component	is used
	a) TextArea	b) Button	
	c) List	d) Choice	
	is a multi-l	ine edit control.	
	a) TextField	b) TextArea	
	c) label	d) Button	
)	method.	in our program, then we must override	
	a) actionPerform()	b) ActionPerformed()	
	c) actionPerfromed()	d) actionPerformed()	
l	In itemStateChanged() method, v	ve must pass object of clas	s.
	a) ItemEvent	b) EventAction	
	c) EventItem	d) ActionEvent	
2	JDBC has been developed under		
	a) JCP	b) JPC	

c) JDC	d) OBDC
JDBC application must import	package.
a) io	b) sql
c) event	d) util
The paint method accepts	type of argument.
a) Graphics	b) Graphic
c) Drawing	d) None of these
Answers of MCO:	
1. (b), 2. (c), 3. (c), 4. (b), 5. (a), 6. (c)	c), 7. (c), 8. (d), 9. (b), 10. (d), 11. (a), 12. (a)
13. (b), 14. (a)	
<b>Short Questions</b>	
	JDBC application must importa) io c) event  The paint method acceptsa) Graphics c) Drawing  Answers of MCQ: 1. (b), 2. (c), 3. (c), 4. (b), 5. (a), 6. (c), 13. (b), 14. (a)

- 1 What is event delegation?
- 2 List out methods of MouseListener.
- 3 Define (1) Event (2) Event Source (3) Event Class (4) Event Listener
- **4** Explain methods (1) setBackground() (2) setForeground()
- 5 Explain types of drivers used in JDBC.
- 6 Write difference between java applet program and java application program.
- 7 List down methods for KeyEvent class and ItemEvent class.

### **Long Questions**

- 1 Explain Applet life cycle in detail.
- What is JDBC? List out JDBC components and types of drivers.
- **3** Write short note on following components.
  - (1) Label
  - (2) TextField
  - (3) TextArea
  - (4) List
  - (5) Choice
  - (6) Button
  - (7) Checkbox