



Dr. Ambedkar Institute of Technology

(An Autonomous Institution, Aided by Government of Karnataka)

Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi
BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056, Karnataka

Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation (CIE - I) Semester 2021

Date : 25/11/2021	Sub. Title :JAVA PROGRAMMING	Timings :9:30-10:30 a m
Day : Thursday	Sub. Code : 18CS52	Time duration : 1hr
Branch : CSE		Max marks : 20
Semester / Sec : 5 th (A ,B,C,D) Sec	CIE - I	Staff in-charge: Dr.Smitha Shekar B Prof. Veena A Prof.Yashaswini H M

Q. No.	Note : Answer ALL the questions	Mark s	Cour se Outc ome	Bloom's Level
1. a)	List out the differences between Method Overloading and Method Overriding with sample programs.	5 M	CO1	L1
b)	Explain the different types of Constructors with examples.	5 M	CO1	L1
2. a)	Explain the usage of following keywords, with examples. 1. this 2. super 3. new 4. interface 5. extends	5 M	CO1, 2	L1,2
b)	Define Exception. Describe the try-catch block to handle multiple exceptions in JAVA.	5 M	CO2	L2

Or

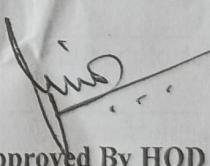
c)	Describe the Classification of Java I/O Stream Classes.	5M	CO1	L1
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Prepared By:

Dr.Smitha Shekar B

Prof. Veena A

Prof.Yashaswini H M


 Approved By HOD
 Dr.Siddaraju



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Note : Answer ALL the questions

1.	In which of the following package Exception class exist?												
A	java.util	B	java.lang	C	java.io	D	java.net						
2.	The value of x after execution will be _____ int x=0, y = 0, z=0; x = (++x + y--) * z++;				C	0	D	1					
A	-2	B	-1	C	0	D	1						
3.	method cannot be overridden.				A	super	B	static	C	final	D	private	
4.	The concept of multiple inheritance is implemented in Java by I. Extending two or more classes II. Extending one class and implementing one or more interfaces III. Implementing two or more interfaces				A	Swing	I II	B	AWT	C	Both A & B	D	Applet
5.	The block that execute compulsorily whether an exception is caught or not.				A	finally	B	catch	C	throws	D	throwable	
6.	Which of the following is used to interpret and execute Java Applet classes hosted by HTML ?				A	appletshow	B	appletviewer	C	appletwatcher	D	appletscreen	
7.	The implicit return type of a constructor is				A	void	B	A class object in which it is defined	C	There is no return type	D	None of the above	
8.	Which of the following option leads to the portability and security of Java?				A	Bytecode is executed by JVM	B	The applet makes the java code secure.	C	Use of exception handling	D	Dynamic binding between objects	
9.	Which of the following is NOT a feature of JAVA?				A	Dynamic	B	Robust	C	Multithreaded	D	Use of Pointers	
10.	Java Language was invented by _____				A	Dennis Ritchie	B	Larry Page	C	Serge Page	D	James Gosling	



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Fifth Semester B.E. Degree (Autonomous) Continuous Internal Evaluation (CIE - II) Semester 2021

Date : 28/12/2021	Sub. Title : JAVA PROGRAMMING	Timings : 9:30-10:30 a m		
Day : Tuesday	Sub. Code : 18CS52	Time duration : 1hr		
Branch : CSE		Max marks : 20		
Semester / Sec : 5 th (A,B,C,D) Sec	CIE - II	Staff in-charge: Dr.Smitha Shekar B Prof. Veena A Prof. Yashaswini H M		
Q. No.	Note : Answer ALL the questions	Marks	Course Outco me	Bloom's Level
1. a)	Distinguish the difference between multiprocessing & multithreading and with neat diagram explain the Thread Life Cycle.	5 M	CO3	L1
b)	Illustrate Socket programming and explain the Java Socket API for connection-oriented network.	5 M	CO3	L2
2. a)	How to create multiple threads using Runnable Interface, Elaborate with an example program.	5 M	CO3	L3
b)	Define Servlets. Explain the Servlet Life cycle	5 M	CO4	L1
<i>Or</i>				
c)	Define Synchronization. Exemplify the synchronization in java along with code snippets.	5M	CO3	L2

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X A 27/12/2021
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Note : Answer ALL the questions

1.	The life cycle of a thread in java is controlled by			
	A JRE	B JDK	C JVM	D None
2.	Thread priority in Java is?			
	A Integer	B Float	C Double	D long
3.	Which of these ways used to communicate from an applet to servlet?			
	A RMI Communication	B HTTP Communication	C Socket Communication	D All mentioned above
4.	What will be the output of the following Java code?			
	<pre>class multithreaded_programing { public static void main(String args[]) { Thread t = Thread.currentThread(); System.out.println(t); } }</pre>			
	A Thread[5,main]	B Thread[main,5]	C Thread[main,0]	D Thread[main,5,main]
5.	What does not prevent JVM from terminating?			
	A Process	B User Thread	C Daemon Thread	D Java Thread
6.	What will happen if two thread of the same priority are called to be processed simultaneously?			
	A Anyone will be executed first lexographically	B Both of them will be executed simultaneously	C None of them will be executed	D It is dependent on the operating system
7.	Which constructor of DatagramSocket class is used to creates a datagram socket and binds it with the given Port Number?			
	A DatagramSocket(int port)	B DatagramSocket()	C DatagramSocket(int port, InetAddress address)	D None of the above
8.	Which method of URL class represents a URL and it has complete set of methods to manipulate URL in Java?			
	A java.net.URL	B java.net.URLConnection	C Both A & B	D None of these
9.	An RMI Server is responsible for			
	A Creating an instance of the remote object	B Exporting the remote object	C Binding the instance of the remote object to the RMI registry	D All of them
10.	Which class is used to create servers that listen for either local client or remote client programs?			
	A ServerSockets	B httpServer	C httpResponse	D None of these

FIFTH Semester B.E. Degree Semester End Examination (SEE), FEB/MAR-2022

JAVA PROGRAMMING

[Time: 3 Hours]

[Maximum Marks: 100]

Instructions to students:

- (i) Answer FIVE FULL Questions as per choice.
- (ii) Any Missing Data can be assumed suitably.
- (iii) Use BLACK ball point pen for text, figure, table, etc.

		Marks	CO	RBT Level
1.	a) List and explain the Java Buzzwords.	[06 Marks]	CO1	L1
	b) Define Applets in java. Write a code snippet using java applet to display a string "Welcome to Dr. AIT" on the window.	[06 Marks]	CO3	L2
	c) Discuss the usage of i. static ii. Final along with code snippets.	[08 Marks]	CO1	L2

OR

2.	a) Define constructors in java. Bring out the difference between constructor and methods in java with an example program.	[08 Marks]	CO2	L1
	b) How packages are defined in java? Discuss the default and user defined packages in java along with code snippets.	[06 Marks]	CO1	L2
	c) Elaborate on the concept of garbage collection in java and also explain the finalize () method.	[06 Marks]	CO1	L1
3.	a) Differentiate the compile time and runtime polymorphism along with code snippets.	[08 Marks]	CO2	L2

	b) Illustrate the difference between Error and Exception. Explain multiple catch clauses with an example program.	[08 Marks]	CO3	L1
	c) Define dynamic method dispatch.	[04 Marks]	CO2	L1

OR

4.	a) Define multiple inheritance. How multiple inheritance is achieved in java along with code snippets?	[08 Marks]	CO2	L2
	b) List the difference between throw and throws keyword with an example program.	[06 Marks]	CO3	L2
	c) Along with code snippets, list the usage of super keyword.	[06 Marks]	CO2	L2
5.	a) Define thread? With neat diagram, explain thread life cycle.	[06 Marks]	CO3	L1

	b) Along with code snippets, explain client server communication using socket programming.	[08 Marks]	CO3	L2
	c) Write a program to create multiple threads by implementing runnable interface.	[06 Marks]	CO3	L2

OR

6. a) Define synchronization? Explain synchronized methods for inter thread communication. [08 Marks] CO3 L2
- b) What is RMI, write and explain the steps to write the RMI Program. [06 Marks] CO3 L2
- c) List few thread handling methods, explain isAlive() and join() methods with code snippets. [06 Marks] CO3 L2
7. a) Explain the delegation event model. [06 Marks] CO3 L2
- b) Elaborate on the different JDBC Driver types. [07 Marks] CO3 L2
- c) List out the difference between the AWT and Swings. [07 Marks] CO3 L2

OR

8. a) Create a simple JDBC Application along with code snippets. [08 Marks] CO4 L3
- b) Explain the MVC Architecture. [04 Marks] CO3 L2
- c) Create a simple swing application to validate a password having 2 textboxes to accept password & Re-enter password and one button as "Validate". It should display a message "Successful" when both the passwords are same and "Unsuccessful" when it mismatches. [08 Marks] CO3 L3
9. a) What is servlet? explain the servlet lifecycle. [08 Marks] CO4 L2
- b) List and explain the various JSP tags and its usage. [08 Marks] CO4 L2
- c) Elaborate on cookies. [04 Marks] CO4 L2

OR

10. a) How tomcat webserver is configured for the development of servlet? Explain along with code snippets. [08 Marks] CO4 L4
- b) List out the purpose of JSP and Java RMI. [06 Marks] CO4 L2
- c) Explain the Javax Servlet package. [06 Marks] CO4 L2
