

Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj
Master of Science (Computer Applications & Information Technology)
Semester: V

Paper Code: CCCS517		Total Credit : 4 Total Marks : 70 Time : 3 Hrs
Title of Paper: Internet Programming With Java		
Unit		
	Description	Weighting
I	Introduction to OOP, Features and Evolution of JAVA, Byte code and JVM, Applications, Applets, Classes, Objects, Encapsulation, Garbage Collection, C++ v/s. JAVA, Data types, Variables, Operators, Associativity and Precedence, Expressions, Type Conversion, Comments, Arrays, Keywords, Methods, Arguments and Return Values, Static v/s. Instance Members, Command-Line Arguments, Escape sequences. Control Structures (if, switch...case), Loops(for, while, do...while), Constructors.	20%
II	Access Specifiers, Subclasses, Inheritance, Method Overriding, Interfaces and Packages, Access Control and Packages, Exception Handling, Custom Exceptions.	20%
III	Java Class Libraries, The Integer Class, Random Class, Date Class, Calendar and Gregorian Calendar Classes, Vector Class and Enumeration Interface, Stack Class, Hashtable Class, StringTokenizer Class, Files and Directories, Character Streams, Buffered Character Streams, The PrintWriter Class, Byte Streams, Random Access Files, The StreamTokenizer Class Networking Internet Addresses, ServerSockets and Sockets, Datagram Sockets and Packets, Uniform Resource Locators	20%
IV	Introduction to visual programming in JAVA with AWT and Swing. GUI Components. Event Handling, Applets and the Life Cycle. The Applet Class, The Graphics Class, Colors, Text, Applet Dimensions	20%
V	Database Drivers, jdbc-odbc bridge, connection, Performing the Basis SQL commands, Resultset Interface, Prepared Statement, Mapping SQL types to java, Overview of JSP, Multithreaded Programming, Synchronization, Deadlock, Thread Communication.	20%
Basic Text & Reference Books :-		
1.	Balagurusamy, Programming with Java: A printer-Second Edition, Tata McGraw-Hill,2000	
2.	Naughton & Schildt, JAVA: The Complete Reference, Tata McGraw Hill.	

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Unit	Description	Total Marks	
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Program based on Java. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Program based on Java. (With Internal Option)	08	