Roll No.

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. (Full Time) - END SEMESTER ARREAR EXAMINATIONS, APRIL / MAY 2024

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Semester III
BM5302 JAVA PROGRAMMING
(Regulation 2019)

Time: 3 Hours

Max.Marks: 100

CO1	To Comprehend the Fundamentals of OOP and Java Language Constructs.
CO2	To familiarize the student with Object Oriented Programming in Java.
CO3	To solve problems using the OOP language constructs.
CO4	To familiarize the functions and protocols of each layer of TCP/IP protocol suite.
CO5	To Develop Web applications with Java.

BL – Bloom's Taxonomy Levels
(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analyzing, L5 - Evaluating, L6 - Creating)

PART- A (10 x 2 = 20 Marks)
(Answer all Questions)

Q. No	Questions	Marks	CO	BL
1	Define OOPS concept & its features.	2	CO1	BL1
2	Draw the architecture of Java Runtime System.	2	CO1	BL2
3	Define Polymorphism & its types.	2	CO2	BL1
4	What is Exception Handling? Mention its types &advantages	2	CO2	BL2
5	Write about Java Collections.	2	CO3	BL1
6	Define Serialization & its advantages.	2	CO3	BL2
7	Define NFS & DNS	2	CO4	BL4
8	Explain about Reverse Address Resolution Protocols	2	CO4	BL2
9	Write short notes on XML Parser.	2	CO5	BL1
10	What is Querying Statements?	2	CO5	BL2

PART- B (5 x 13 = 65 Marks)

Q. No	Questions	Marks	CO	BL
11 (a)	Explain about Java its characteristics & Java Language Basics in detail	13	CO1	BL1
	OR			
11 (b)	Explain about Arrays, Classes and Objects, Strings in detail	13	CO1	BL1
12 (a)	Explain Inheritance, Java Exception Hierarchy in detail.	13	CO2	BL2
	OR			
12 (b)	Explain about Down Casting & Multithreading in detail.	13	CO2	BL2
13 (a)	Explain about Generic Classes, Methods & Generic Collections in detail.	13	CO3	BL2
	OR			
13 (b)	Explain about Java Utility Packages & Bit Manipulation in detail.	13	CO3	BL2

14 (a)	Explain Email, UDP & FTP in detail.	13	CO4	BL1
OR				
14 (b)	Explain about WWW, URN, URI & URL in detail.	13	CO4	BL1
15 (a)	Explain about HTML, XHTML& Client Side Scripting in detail.	13	CO5	BL2
OR				
15 (b)	Explain the JSP Technology, Java Servlets Architecture in detail.	13	CO5	BL2

PART- C (1 x 15 = 15 Marks)

(Q.No.16 is compulsory)

Q. No	Questions	Marks	CO	BL
16.	(i) What is the need for Type casting, Package Access &Java API Packages in detail	8	CO1	BL2
	(ii) Write a Java Program for Displaying a Single Line of Text with Multiple Statements and also with printf.	7	CO1	BL6