G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., INFORMATION TECHNOLOGY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART - III	CORE - 3	U23IT202	JAVA PROGRAMMING

Date & Session: 05.11.2024/AN Time : 3 hours Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which one of the following is not a Java feature? a) Object-oriented b) pointers c) Garbage collection d) Portable
CO1	K2	2.	Select the correct statement about Truncation in Java. a) Floating-point value assigned to a Floating type b) Floating-point value assigned to an integer type c) Integer value assigned to floating type d) Integer value assigned to floating type
CO2	K1	3.	Which of the following is not a valid primitive data type in Java. a) int b) boolean c) char d) string
CO2	K2	4.	Select the correct statement about final variable in Java. a) It can be modified once initialized. b) It must be initialized during declaration. c) It can be re-assigned within a method. d) It can hold a reference to a non-final object.
CO3	K1	5.	Which one of the following is false statement about runtime polymorphism in Java? a) Method overriding b) RMI c) Method overloading d) Virtual method calls
CO3	K2	6.	Select the following statements about abstract methods is true. a) An abstract method can have a body. b) An abstract method cannot be overridden by subclasses. c) An abstract method must be declared in an abstract class. d) An abstract method can only be static.
CO4	K1	7.	Which of the following is the superclass of all exceptions in Java? a) Throwable b) Exception c) Error d) Runtime Exception
CO4	K2	8.	Select the keyword used to implement an interface in Java. a) implements b) extends c) abstract d) interface
CO5	K1	9.	Which JDBC component is used to execute SQL queries? a) Connection b) ResultSet c) DriverManager d) Statement
CO5	K2	10.	Trace out the role of the service() method in a servlet. a) It initializes the servlet. b) It handles HTTP requests and sends responses. c) It destroys the servlet. d) It handles servlet configuration.

Course Outcome	Bloom's K-level	Q. No.	**SECTION – B (5 X 5 = 25 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	11a.	Compute the factorial of 'n' numbers using java code. **(OR)**
CO1	K3	11b.	Calculate the age of a person using java code.
CO2	K3	12a.	Write a java program to create multidimensional array. **(OR)**
CO2	K3	12b.	Write a java program to perform string operations.
CO3	K4	13a.	Compare method overloading with method overriding. **(OR)**
CO3	K4	13b.	Distinguish between static members and non-static members.
CO4	K4	14a.	Infer how the interface is useful for multiple inheritance? **(OR)**
CO4	K4	14b.	Examine the uses of multithreaded programming in Java.
CO5	K5	15a.	Interpret the functions of layout manager in Java. **(OR)**
CO5	K5	15b.	Assess the usage of servlet API with examples.

Course Outcome	Bloom's K-level	Q. No.	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Illustrate the work flow of Java Virtual Machine. **(OR)**
CO1	K3	16b.	Examine the features of Java with examples.
CO2	K4	17a.	Classify the data types in java with examples. **(OR)**
CO2	K4	17b.	Categorize the decision-making statements with examples.
CO3	K4	18a.	Analyse the usage of parameterized constructor. **(OR)**
CO3	K4	18b.	Examine the various inheritance in Java.
CO4	K5	19a.	Assess the error handling mechanism in Java. **(OR)**
CO4	K5	19b.	Interpret the usage of package in Java?
CO5	K5	20a.	Prioritize the life cycle of servlet. **(OR)**
CO5	K5	20b.	Write the importance of JDBC in Java.