R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT
(An Autonomous Institute U/s UGC Act 1956)

B.Voc. SEMESTER-II, SEMESTER END EXAMINATION – WINTER 2025

SUBJECT CODE: 1SD203   **DATE: 12-01-2026**
SUBJECT NAME: OBJECT ORIENTED PROGRAMMING WITH JAVA
TIME: 11:00 AM to 01:00 PM   **TOTAL MARKS: 50**

Instructions
1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
2. Attempt all questions in the question paper.
3. The figures to the right of each question indicate full marks. Make suitable assumptions with proper justification wherever required.
4. Simple, non-programmable scientific calculators are permitted.
5. BL - Cognitive Level (As per Revised Bloom's Taxonomy) (R-Remember, U-Understanding, A –Application, N –Analyze, E – Evaluate, C -Create), CO - Course Outcomes.

			Marks	BL	CO
Q.1	**(a)**	Write the feature of Java	05	R	1
	(b)	What is JVM? Explain JVM Architecture.	05	U	1
Q.2	**(a)**	Explain "final" keyword in terms of variable, method and class.	05	U	2
	(b)	Explain inheritance and its types with suitable example.	05	A	2

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OR

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			Marks	BL	CO
Q.2	**(a)**	What is constructor? Explain the types of constructors in Java.	05	U	2
	(b)	Explain access modifiers in Java with example.	05	A	2
Q.3	**(a)**	Explain following string method: compareTo() and substring() with example.	05	A	3
	(b)	Explain one dimensional array in Java.	05	U	3

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OR

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			Marks	BL	CO
Q.3	**(a)**	What is string in Java? Explain with examples	05	A	3
	(b)	List out and describe any 10 string methods in Java.	05	U	3
Q.4	**(a)**	Explain thread priority with an example.	05	A	4
	(b)	Explain thread life cycle with neat clean state diagram.	05	U	4

Q.4 **(a)** Explain the concept of synchronization in Java with prior example. **05** **A** **4**

(b) Explain the steps for creating a new thread of execution. **05** **U** **4**

Q.5 **(a)** Write difference between the Applet and Application. **05** **R** **5**

(b) State and define the methods of the Java applet life cycle. **05** **R** **5**

OR

Q.5 **(a)** Short note on Running the applet in Java. **05** **R** **5**

(b) Short note on local applet and remote applet with example. **05** **R** **5**

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