BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

BTECH CLASS: BRANCH: CSE/IT

SEMESTER: III SESSION: MO/2022

SUBJECT: CS233 OBJECT ORIENTED PROGRAMMING & DESIGN PATTERNS

2 HOURS TIME:

FULL MARKS: 25

INSTRUCTIONS:

- 1. The total marks of the questions are 25.
- 2. Candidates attempt for all 25 marks.
- 3. Before attempting the question paper, be sure that you have got the correct question paper.
- 4. The missing data, if any, may be assumed suitably.

become "@Today# IS @Sunday#")

5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

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Q1 Q1	(a) (b)	In context to Java, what is the importance of setting environment variables? Can we return multiple values from a method? Explain with suitable examples.	[2] [3]	1 2	8L 4 2	
000	Fail.	Correct errors (if any) and predict the output of the following code:	[2]	ż	3	
QZ	(a)	<pre>class Test { public static void main(String args[])</pre>				
Q2	(b)	How an application comprising of multiple classes can be compiled? Illustrate with a suitable program.	[3]	2	3	
03	60	How multidimensional arrays are declared? Can you have uneven (irregular)	[2]	1	1	
		multidimensional arrays? Explain with a suitable example. Differentiate between local variables, class variables and instance variables of a class with a suitable program segment.	[3]	2	4	
Q4 Q4	(a)	Explain the significance of the bytecode. What is mutable and immutable object? Explain each with an example.	[2]	1	1 2	111111111111111111111111111111111111111
Q!	5	Write a program to read a line of text from the user. All the words that begin with a vowel are capitalized and all the words that begin with a consonant are prefixed with @ and appended with #. (Eg: the line "Today is Sunday" would	S.	1		6