POORNIMA UNIVERSITY, JAIPUR

END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

Write Roll No Below: _____

MCA (ALL) I () - II sem (Main/Back) End Semester Examination,

MCACCA2103: OOPs with Java

Time: 3 Hours **Total Marks:** 60 **Min. Passing Marks:** 21/24/27 **Question Paper ID:** 001350

Instructions: Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Applying, 4-Analysing, 5-Evaluating, 6-Creating

Use of following supporting material is permitted during examination for this subject: Nil

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			Marks	BL	CO
Q1.	**(a)**	(i) List the primitive data types available in Java? Explain it. **(Marks 6)** (ii) What is an interface? What are the similarities between interfaces and classes? **(Marks 6)** **(OR)**	12	1	1
	(b)	(i) Why Java is called machine independent language. Explain the functionality of JVM? **(Marks 6)** (ii) Explain the significance of public, protected and private access specifiers in inheritance? **(Marks 6)**			
Q2.	**(a)**	(i) What is inheritance and how does it help to create new classes quickly? **(Marks 6)** (ii) Explain all the decision making and control statements available in Java? **(Marks 6)** **(OR)**	12	1	2
	(b)	(i) What are the various looping statements available in Java? Discuss with suitable examples. **(Marks 6)** (ii) Write a program in Java, which will read a text and count all occurrences of a particular word. **(Marks 6)**			
Q3.	**(a)**	(i) Explain the process of defining and creating a package with suitable examples. **(Marks 6)** (ii) Differentiate between Checked and UnChecked Exceptions with examples. **(Marks 6)** **(OR)**	12	1	3
	(b)	(i) What are the different ways to handle exceptions? Explain. **(Marks 6)** (ii) Describe the process of importing and accessing a package with suitable examples. **(Marks 6)**			
Q4.	**(a)**	(i) What do you mean by Multithreading in Java? What are the different ways to create a thread in Java? Explain with the help of any example? **(Marks 6)** (ii) What is an applet? Explain the life cycle of Applet with a neat sketch. **(Marks 6)** **(OR)**	12	1	4
	(b)	(i) Write AWT program in Java to find sum, multiplication and average of three numbers. **(Marks 6)** (ii) Write a simple java program to create threads. Also explain the use of Synchronization. **(Marks 6)**			
Q5.	**(a)**	(i) Write the steps to connect Java Application with any database to fetch the data from any table of that database. **(Marks 6)** (ii) How we can executing the queries in JDBC applications? Give a suitable example. **(Marks 6)** **(OR)**	12	1	5
	(b)	(i) What is JDBC Driver? And what is the processor to load a JDBC drivers. **(Marks 6)** (ii) What are the commonly used methods of Result Set interface? Explain in detail. **(Marks 6)**			

*****End of Question Paper*****