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MIT WORLD PEACE UNIVERSITY | PUNE
MIT-WPU
TECHNOLOGY RESEARCH SOCIAL INNOVATION & PARTNERSHIPS

End Semester Examination

May-June 2023

COS5011B - Next Generation Databases

Schedule ID: 13186

Faculty/School	Faculty of Science	Term	Semester II
Program	FYM.Sc- CS	Duration	1 Hours 30 Minutes
Specialization	--	Max. Marks	40

Read the instructions provided for every question properly before attempting the answer.

Section 1 - [7 Questions, 8 Marks] (5 X 8 Marks)
Answer any 5 questions

1	a. Describe NoSQL with its key features. b. Differentiate between 2-Tier and 3-Tier Internet Architecture with suitable diagrams	8 marks	CO1,CO2Remembering
2	a. Evaluate NoSQL query to insert 5 students data and display student having maximum final year percentage. b. Explain Aggregation pipeline in MongoDB with an example	8 marks	CO2,CO3Applying
3	a. Sketch and explain NoSQL Storage Architecture b. Apply and explain the following MongoDB Operation 1. AND operation 2. NOR condition 3. NOT condition	8 marks	CO1,CO2Remembering
4	a. Distinguish between MySQL and NOSQL. b. Display the customer, those are from same city and whose age is greater then 45 years.	8 marks	CO2,CO4Evaluating
5	Write and Create a blog application using Python and MongoDB.	8 marks	CO3,CO4Creating
6	What is an Indexing? How it is beneficial in retrieving a data from collection? Explain with a example.	8 marks	CO1,CO2Understanding
7	a. Distinguish between MongoDB and Cassandra b Explain Indexing and ordering with suitable examples.	8 marks	CO2,CO3Remembering