PRN:		Course Code :	UCA 501

Third Year **B.C.A.** End Semester Examination Winter 2024

Advanced Application Development 000704

Day and Date: Sat 30 NOV 2024 Max Marks: **100**

Time : 10:30AM To 01.30PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Distinguish between AngularJS and Node.js.	08	L2	CO1
	b)	Describe the modules in Node.js.	08	L1	CO1
		OR			
	b)	Explain CRUD operation in Node.js with an Example	08	L2	CO1
Q.2		**Attempt the following**			
	a)	List and explain the different data types in MongoDB?	08	L1	CO1
	b)	Distinguish between MongoDB and SQL server.	08	L3	CO1
		OR			
	b)	Solve the queries for the following in MongoDB 1. Create an employee collection with the fields: {eid, ename, dept, desig, salary, Date of Joining, address{dno, street, locality, city}} 2. Display all the employees with salary in range (50000, 75000) 3. Display the city of employee "Rahul" 4. Display the employee who belongs to Sales Department	08	L3	CO1
Q.3		**Attempt any two from the following**			
	a)	List and explain the features and advantages of Express.js.	08	L1	CO2
	b)	Discuss about Cookie in Express.js with example	08	L2	CO2
	c)	Demonstrate the middleware in Express.js with its types	08	L3	CO2
Q.4		**Attempt any two from the following**			
	a)	State the different directives in Angular.js and explain ng-model and ng-controller in detail.	08	L1	CO3
	b)	Illustrate the essential building blocks of Angular.js?	08	L3	CO3
	c)	Create an application for validating a form in Angular.js	08	L5	CO3
Q.5		**Attempt any Two of the following**			
	a)	Discuss flutter with its key features.	09	L2	CO4
	b)	Explain classes and objects in Dart Programing with an example	09	L2	CO4
	c)	Create an app using flutter for user authentication.	09	L5	CO4
Q.6		**Attempt any Two of the following**			
	a)	Identify different types of flutter widgets and explain them in detail.	09	L1	CO4
	b)	Demonstrate a flutter container widget with its properties.	09	L3	CO4
	c)	Develop an app using Flutter to implement an Image Gallery.	09	L4	CO4

*****

ESE