PRN:		Course Code :	PCA353

Second Year **MCA** End Semester Examination Summer 2024

Advanced Application Development

Day and Date: wednesday, 05/06/24 Max Marks: **100**

Time : 2-00 to 5-00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Define is package.json file?	08	L1	CO1
	b)	Describe the role of the Node.js Event Loop in handling asynchronous operations within a Node.js application?	08	L2	CO1
		OR			
	b)	Demonstrate the Node.js HTTP module and its role in creating web servers?	08	L3	CO2
Q.2		**Attempt the following**			
	a)	Describe the process of querying documents in Mongo DB explain **find(),findMany(),queries with example using MongoDB.**	08	L2	CO2
	b)	Explore advanced querying techniques in MongoDB, beyond simple **find()** operations?	08	L2	CO1
		OR			
	b)	Compare and contrast the MongoDB Compass and the Mongo Shell interface in terms of their features, usability, and suitability?	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain the process of testing REST APIs in an Express.js application using tools such as Mocha, Chai, and Supertest?	08	L2	CO3
	b)	Evaluate the advantages and challenges of restructuring an Express.js application?	08	L5	CO2
	c)	Difference between Express.JS and Node.Js?	08	L4	CO2
Q.4		**Attempt any two from the following**			
	a)	Explain the difference between template-driven forms and reactive forms in AngularJS.	08	L2	CO3
	b)	Create application NgModules Using Router?	08	L5	CO4
	c)	Explain angularJS Expression using String , Array?	08	L2	CO3
Q.5		**Attempt any Two of the following**			
	a)	How dart function will be used in flutter application?	09	L1	CO3
	b)	Create Simple Application to display "This is home page" in android Studio Using Flutter.	09	L5	CO4
	c)	What is flutter ? Explain Importance of flutter.	09	L1	CO3
Q.6		**Attempt any Two of the following**			
	a)	How the hot reload differ than hot restart.	09	L6	CO4
	b)	Explain Fitted Box Widget with constructor of class and properties Text Button widget.	09	L2	CO3
	c)	Explain Fitted Box Widget with constructor of class and properties Fitted Box Image widget.	09	L2	CO4

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