Duinted	Parray 04	Subject Code: ACCEDCAA / ACCELLOCAA			
Printed		Subject Code:- ACSE0614 / ACSEH0614 Roll. No:			
NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA					
	(An Autonomous Institute Af				
	B.Ted SEM: VI - THEORY EXAMII				
	Subject: Web Developme	,			
Time: 3	3 Hours	Max. Marks: 100			
	Instructions:	maxi marks. 100			
		er with the correct course, code, branch etc.			
		ons -A, B, & C. It consists of Multiple Choice			
Question	as (MCQ's) & Subjective type questions.				
2. Maxim	num marks for each question are indicated	on right -hand side of each question.			
3. Illustro	ate your answers with neat sketches wherev	er necessary.			
4. Assum	ne suitable data if necessary.				
-	ably, write the answers in sequential order.				
		material after a blank sheet will not be			
evaluated	d/checked.				
	SECTION	A 20			
1. Attem	npt all parts:-				
1-a.	NPM Stands for(CO1)	1			
	(a) Node Project Manager				
	(b) Node Package Manager				
	(c) New Project Manager				
	(d) New Package Manager				
1-b.	Choose the following extension is used	to save the Node.is files. (CO1)			
1-0.		to save the Node.js files. (COT)			
	(a) .js				
	(b) .node				
	(c) .java				
	(d) .txt				
1-c.	Express.js is written in which of the follo	owing language. (CO2)			
	(a) Python				
	(b) Node.js				
	(c) JavaScript				

	(d) C++	
1-d.	In order to use Mongo with Express, we need a client API for node.(CO2)	1
	(a) TRUE	
	(b) FALSE	
	(c) Can be true or false	
	(d) None	
1-e.	Select command to compile a module. (CO3)	1
	(a) tsc-m amd mymodule.ts	
	(b) tscmodule amd mymodule.ts	
	(c) Both a and b	
	(d) None ofthe above	
1-f.	Rest parameter used in a function(CO3)	1
	(a) the type of parameter is not known	
	(b) the function is called recursively	
	(c) the function needs to be executed asynchronously	
	(d) the number of parameters is not known	
1-g.	AngularJs is based on.(CO4)	1
	(a) MVC Architecture	
	(b) MVVM Architectural pattern	
	(c) Decorator pattern	
	(d) Observer Pattern	
1-h.	The controller take the single parameter.(CO4)	1
	(a) \$controller	
	(b) ^scope	
	(c) \$scpoe	
	(d) None of these	
1-i.	Primary unit of data modeling in MongoDb (CO5)	1
	(a) Tables	
	(b) Row	
	(c) Documents	
	(d) None of the above	
1-j.	Categories of NoSQL databases is(CO5)	1
	(a) 1	

	(c) 4	
	(d) 3	
2. Attem	pt all parts:-	
2.a.	Illustrate Graph QL.(CO1)	2
2.b.	Relate the term Express.js Routing.(CO2)	2
2.c.	Define power of types in your words.(CO3)	2
2.d.	Define model view in MVC.(CO4)	2
2.e.	Explain various types of SQL databases.(CO5)	2
	SECTION B	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	List the differences between the global installation of dependencies and local installation of dependencies.(CO1)	6
3-b.	Explain the difference between events and callbacks in Node.js.(CO1)	6
3-c.	Describe Environmental Variable and its types. (CO2)	6
3-d.	Write down the advantages of Express.js.(CO2)	6
3.e.	Explain Decorators in TypeScript.(CO3)	6
3.f.	Explain architectures of angular js with diagram.(CO4)	6
3.g.	Write down the all features sets of mongoDB in details.(CO5)	6
	SECTION C	50
4. Answe	er any <u>one</u> of the following:-	
4-a.	Why is Node.js preferred over other backend technologies like Java and PHP. (CO1)	10
4-b.	Explain the concept of middleware in Node.js.(CO1)	10
5. Answe	er any <u>one</u> of the following:-	
5-a.	Explain REST full API's in detail with suitable diagram.(CO2)	10
5-b.	Mention and describe HTTP Method of Express.(CO2)	10
6. Answe	er any <u>one</u> of the following:-	
6-a.	TypeScript is a free and open-source programming language, justify this statement in your words.(CO3)	10
6-b.	List some features of Typescript and explain each in brief.(CO3)	10
7. Answe	er any one of the following:-	

(b) 2

7-a.	Explain Angular js AJAX . What are two different APIs to handle Ajax requests explain with example.(CO4)	10	
7-b.	Discuss AngularJS Forms & Forms validation with example.(CO4)	10	
8. Answer any <u>one</u> of the following:-			
8-a.	Write steps for MongoDB Environment Setup and how to Install MongoDB on Windows.(CO5)	10	
8-b.	Comparation between a model and a schema in Mongoose.(CO5)	10	

