Printed Page:-03		_	Subject Code:- ACSE0614						
		Roll	. No:						
NO	TDA '	INSTITUTE OF ENGINEERING AND	TECHNOL	OCV	CDE	TED	MAIL	<u> </u>	
NO	IDA .	(An Autonomous Institute Affiliate		-			WIL	JA	
B.Tech									
		SEM: VI - THEORY EXAMINA	ATION- (20	24 - 20)25)				
		Subject: Web Development u	sing MEAN	N Stack				100	
Time: 3 Hours					N	Max. M	arks	: 100	
		nstructions: fy that you have received the question paper	with the con	rrect co	ourse c	ode hr	anch	etc	
		estion paper comprises of three Sections -A ,							
		(MCQ's) & Subjective type questions.	_,			_F 0			
2. <i>Ma</i> .	ximun	m marks for each question are indicated on	right -hand	side of	each q	uestion.			
		e your answers with neat sketches wherever	necessary.						
		suitable data if necessary.							
		ply, write the answers in sequential order.	ifter a blank	shoots	vill not	ha			
		t should be left blank. Any written material a checked.	ijier a biank	sneet v	viii noi	ve			
0 / 0									
SECT	ION-	[-A			5 X			20	
		all parts:-				,			
1-a.	_	Callback is called. (CO1, K1))			1	
ı u.	(a)	The callback is a technique in which a me	thod calls h	ack the	caller	method	ł	1	
	(a) (b)	The callback is an asynchronous equivale			carici	memou	.•		
	(c)	Both of the above.	iit ior a ruiic	Zuon.					
	(d)	None of the above.							
1 1.	` /		dulas in Ma		(CO1	I Z 1)		1	
1-b.		Select the function that is used to include mo	dules III No	ue.js.	(CO1,	K 1)		1	
	(a)	include();							
	(b)	require();							
	(c)	attach();							
	(d)	all of the Above							
1-c.		Select requests that are used to transmit a lar	_	of data,	as the	data is		1	
		ncluded in the body of the request. (CO2, K	2)						
	(a)	GET							
	(b)	POST							
	(c)	PUT							
	(d)	DELETE							
1-d.	C	Choose correct templating engine for Expres	s. (CO2, K1)				1	
	(a)	Oil							
	(b)	Master							

	(c)	Body parser				
	(d)	pug				
1-e.	Se	elect object oriented terms that are supported by Typescript. (CO3, K2)	1			
	(a)	Modules				
	(b)	Class				
	(c)	Interface				
	(d)	All				
1-f.	TypeScript compiles file in . (CO3, K1)					
	(a)	JavaScript				
	(b)	C				
	(c)	Python				
	(d)	None				
1-g.	Se	elect the process of sharing data between controller and viewer. (CO4, K2)]			
	(a)	using components				
	(b)	using models				
	(c)	using service				
	(d)	using method				
1-h.	Se	elect the correct one as the father of AngularJS.(CO4, K1)]			
	(a)	Brad Green				
	(b)	Misko Hevery				
	(c)	Adam Abrons				
	(d)	Mike Adams				
1-i.	C	hoose Primary difference between SQL and NoSQL databases. (CO5, K2)]			
	(a)	SQL databases use a fixed schema, while NoSQL databases use a flexible schema				
	(b) docu	SQL databases use a hierarchical data structure, while NoSQL databases use a ocument-based structure				
	(c)	SQL databases are relational, while NoSQL databases are non-relational				
	(d)	All of the above				
1-j.	Se	elect the example of SQL Database. (CO5, K2)	1			
	(a)	MongoDB, Cassandra, and Redis				
	(b)	MySQL, Oracle, and PostgreSQL				
	(c)	Hadoop, Hive, and Spark				
	(d)	All of the above				
2. Att	empt a	all parts:-				
2.a.	D	escribe Graph QL.(CO1, K2)	2			
2.b.	D	efine the term Express.js Routing.(CO2, K1)	2			
2.c.	D	efine power of types in your words.(CO3, K1)	2			
2.d.	E	explain types of data binding in your words. (CO4, K2)				

2.e.	Discuss features of MongoDB. (CO5, K2)	2
SECTI	<u>ON-B</u>	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Demonstrate callback hell in Node.js. (CO1, K3)	6
3-b.	Perform Promise Chaining.(CO1, K3)	6
3-c.	Discuss scaffolding in Express.js. (CO2, K2)	6
3-d.	Explain the process of code to start serving static files in Express.js. (CO2, K2)	6
3.e.	Implement Anonymous function with example. (CO3, K3)	6
3.f.	Describe data binding with different types in details. (CO4, K2)	6
3.g.	Implement steps for update documents in a MongoDB collection. (CO5, K3)	6
SECTION	<u>ON-C</u>	50
4. Answ	ver any <u>one</u> of the following:-	
4-a.	Examine REPL in Node.js in detail along with implementation. (CO1, K4)	10
4-b.	Differentiate File System Modules and Template Engine in detail. (CO1, K4)	10
5. Answ	ver any <u>one</u> of the following:-	
5-a.	Examine the difference between Express.js and Node.js along with code. (CO2, K4)	10
5-b.	Assess Environmental Variable in detail with example.(CO2, K5)	10
6. Answ	ver any one of the following:-	
6-a.	Implement How to import and export a module in programing concept justify this with example. (CO3, K3)	10
6-b.	Compare typescript function ,function declaration, function definition and function call in detail .(CO3, K4)	10
7. Answ	ver any one of the following:-	
7-a.	Examine Angular.js ng-options in detail.(CO4, K4)	10
7-b.	Defend Form group and form control in Angular.js with implementation (CO4, K5)	10
8. Answ	ver any one of the following:-	
8-a.	Evaluate steps for MongoDB Environment Setup and how to Install MongoDB on Windows.(CO5, K5)	10
8-b.	Assess the process of combining the API with an Angular application, and what tools and libraries can you use to make HTTP requests to the API.(CO5, K5)	10