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		B.Te		<b>u to</b> 1.		ι υ,	24,		,	•			
		SEM: VI - THEORY EXAM	IINAT	ION	(20	••••	2	20	)				
		Subject: Modern V	Web A	pplic	atio	ns						_	
	e: 3 F	lours structions:								Max	x. M	ark	s: 100
		structions: y that you have received the question p	naner v	with ti	he c	orr	ect (	าดน	rse	code	e hr	anci	h etc
		stion paper comprises of <b>three Section</b>	_										
		MCQ's) & Subjective type questions.	Í							•			
		n marks for each question are indicate		_			de o	f ec	ich .	ques	tion.		
		your answers with neat sketches when	rever n	ecess	ary	•							
		uitable data if necessary. ly, write the answers in sequential ord	lor										
•	,	should be left blank. Any written mate		ter a	blar	ık s	heet	wi	ll no	ot be			
		hecked.	3										
<b>SECT</b>	TON-	· <u>A</u>											20
1. Atte	empt a	all parts:-											
1-a.		software that searches through a data formation is known as: (CO1, K1)	base of	f web	pag	ges	for p	art	icul	ar			1
	(a)	Internet	1										
	(b)	Search Engine		) '									
	(c)	Website	3										
	(d)	Protocol											
1-b.	T	he first Internet search engine is know	n as (	CO1,	K1	)							1
	(a)	Archie											
	(b)	Google											
	(c)	Bing											
	(d)	Yahoosearch											
1-c.	T	he symbol used at the beginning of the	e HRE	F text	is	(C	O2,	K1	)				1
	(a)	@											
	(b)	&											
	(c)	\$											
	(d)	#											
1-d.	C	SS property and value is used to cente	er an el	emen	t. (C	CO2	2, K	1)					1
	(a)	text-align:center											
	(b)	align:center											

	(c)	text-align:middle	
	(d)	align:middle	
1-e.	T	he "function" and " var" are known as: (CO3, K1)	1
	(a)	Keywords	
	(b)	data types	
	(c)	Declaration statements	
	(d)	Prototypes	
1-f.	_	method to get element by its ID: (CO3, K1)	1
	(a)	querySelector()	
	(b)	getElement()	
	(c)	getElementById()	
	(d)	fetchById()	
1-g.	j(	Query event triggered when an element is clicked: (CO4, K1)	1
	(a)	hover()	
	(b)	click()	
	(c)	mousedown()	
	(d)	keydown()	
1-h.	U	(se of parent() method: (CO4, K1)	1
	(a)	Select previous sibling	
	(b)	Select parent element	
	(c)	Select first child	
	(d)	Select inner content	
1-i.	F	ormat typically used for RESTful request and response messages (CO5, K1)	1
	(a)	JPEG	
	(b)	HTML	
	(c)	JSON	
	(d)	EXE	
1-j.	C	omponent of HTTP request that indicates the HTTP method (CO5, K1)	1
	(a)	Request line	
	(b)	Header	
	(c)	Body	
	(d)	Response	
2. Att	empt	all parts:-	
2.a.	D	differentiate between the different types of websites. (CO1, K2)	2
2.b.	E	xplain attributes and control of HTML form element. (CO2, K2)	2
2.c.	D	viscuss the role of break and continue statements. (CO3, K2)	2
2.d.	D	bescribe deep linking in Angular JS. (CO4, K2)	2

∠.e.	Explain format of a UKI in KEST architecture. (CO3, K2)	4			
<b>SECTIO</b>	<u>ON-B</u>	30			
3. Answ	ver any five of the following:-				
3-a.	Explain web services & its components. (CO1, K2)	Ć			
3-b.	Describe the three-tier architecture model and its benefits in web applications. (CO1, K2)				
3-c.	Discuss a CSS style specification rule that would make all unordered lists (tags) have square bullets and a purple background. (CO2, K2)				
3-d.	Explain ROWSPAN, COLSPAN, CELLPADDING and CELLSPACING tags of HTML with example. (CO2, K2)				
3.e.	Discuss the ways to define a variable in JavaScript. (CO3, K2)	6			
3.f.	Discuss the advantages of using AngularJS for building Single Page Applications (SPAs). (CO4, K2)	6			
3.g.	Differentiate between PUT and POST operations. (CO5, K2)	$\epsilon$			
<b>SECTIO</b>	<u>ON-C</u>	50			
4. Answ	ver any one of the following:-				
4-a.	Explain the Client-Server Model and Three-Tier Architecture. Compare them with respect to scalability, performance, and data flow. (CO1, K2)	10			
4-b.	Compare static and dynamic websites based on structure, technology, and user interaction. (CO1, K2)	10			
5. Answ	ver any one of the following:-				
5-a.	Design an html form to take the information of a customer visiting a departmental store such as name, contact phone no, preferred days of purchasing, favorite item (to be selected from a list of items), suggestions etc. One should provide button to Submit as well as Reset the form contents also using CSS styles to demonstrate each entity. (CO2, K3)	10			
5-b.	Differentiate between inline, internal, and external CSS with proper coding as an example to show how they are used on the same page. Also, discuss which one is preferred in large-scale websites and why. (CO2, K2)	10			
6. Answ	ver any <u>one</u> of the following:-				
6-a.	Write a Javascript Program to print numbers from 1 to 10 using for loop and while loop. (CO3, K3)	10			
6-b.	Differentiate the performance between `for`, `while`, and `forin` loops. (CO3, K2)	10			
7. Answ	ver any <u>one</u> of the following:-				
7-a.	Explain how to pass parameters to an Angular JS filter. (CO4, K2)	10			
7-b.	Describe the Bootstrap grid system in detail. Explain how it supports responsive design with suitable examples and advantages. (CO4, K2)	10			
8. Answ	ver any <u>one</u> of the following:-				

- 8-a. Explain the environment required to create a RESTful web service. (CO5, K2)
- 8-b. Describe the architectural principles of REST and explain how they contribute to scalability and simplicity in web services. (CO5, K2)

10

