and the second		Departm	ent of Civil En	gineering		
rogram	B.Tech.	Sem	6 th			12.13
ub. Code	OECE-103	Subjec	t Project Ma	anagement & N	lonitoring	
1ST	2	Teache	er Gurpreet S	Singh, Manmoh	an Singh, Prabhjo	t
lay Mark	24	Time	Singh, Ar	oan Singh		
an. Main	14 5 2025	I Ime	1 hour 30	minutes		
ote. Attem	nt all questions).			
).	pt an questions	,	Question			Ma
0			Question			rks
What	is difference	between	PERT and CH	PM.	Y	2
2) Why	there is a need	d to upda	ate the networl	k?		2
3) Name	e any two sof	tware's	which can be	employed for	r planning and	4
moni	toring of a pro	oject?				
4 Discu	iss the differe	nt types	of floats and e	xplain their si	gnificance?	4
5 Expla	in the method	d of time	cost optimiza	tion of projec	t network.	4
6 Cons	ider the data c	of a proje	ect as shown in	n the followin	g table:	8
Acti	vity Nor	rmal	Normal	Crash	Crash Cost	
	lin	ne alaoù	Cost (Rs)	lime	(RS)	
	(we	eks)		(weeks)		
1-2	7		700	4	850	
1-3	5		500	3	700	
1-4	8		600	5	1200	
2-5	9		800	7	1250	
3-5	5		700	3	1000	
3-6	6		1100	5	1300	
4-6	7		1200	5	1450	
	2	1	400	1.	500	
5-7	and a state of the					1

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			Guru Nanak Dev H	Ingineering Col	lege, Ludhi	ana		
Progra	m	and the second second	B.Tech.(IT)	Semester		6		
Subject	t Code	355.2	MCI-103	Subject	Title	Organizational Beh	naviour	Dland
Mid Se	mester Te	est (MST) No.	2	Course	Coord(s)	Dr. Jagdeep Singh,	Dr Deepak I	Dhand
Max. N	larks	a the second sec	24	Time Du	iration	1 hour 30 minutes		
Date of	f MST			Roll Nu	mber :-	1203757		
Note: A	Attempt all	questions		1			CO. DPT	Marks
Q. N.			Que	stion			COS, RB1 level	IVILIAG
	XX 71 .	.1	a	23 C2		and the second second	CO2, L2	2
12th	What are	e the causes of con	nflicts?	1:4:			CO3. L2	2
22	What is	the relationship b	etween power and	politics?		will take to	CO2 L3	4
Q3)	Explain	the concept of str	ress at work. As a	manager, what	t steps you	will take to	002, 25	
X	prevent	and manage stress	s in the organization	on?	1:00-	ant stages and the	CO2 12	4
Q4)	Explain	in detail on how g	groups are formed	in organizatio	ns in differ	ent stages and the	02, 22	
\sim	emerger	nce of informal lea	aders and working	norms.	1	4 9	COL II	4
Q5/	Explain	Job Satisfaction.	What are the main	n causes of Job	dissatistac	ction?	CO2 13	8
Q6	How do	es organization c	ulture create its	impact on wo	kforce? Su	iggest measures for	02, 15	
	developin	ng organization cul	ture.	1	and the second			
Course	Objectives	5:		and the				
1	Individ	uals'- Behaviour i	n an Individual Cor	ntext				
2	Grout	os/Teams' - Behav	viour in an Organisa	ational Context	S. Carlos Street			
3	Organ	izations' - How de	o these Artificial Pe	rsons' Behave?				
DRT CI	assification	Lower Order Thin	nking Levels (LOTS		Higher Or	der Thinking Levels (HUTS)	16
RBTL	evel No.	L1	L2	L3	LA	L5 E-shusting	Creating	
RBTLe	vel Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	

			Guru Nanak Dev E	Engineering Colle	ge, Ludhia	ana		
Duegue			B.Tech.(IT)	Semester		6		
Progra	m + Codo		MCI-103	Subject Ti	itle	Organizational Beh	aviour	Thand
Subject	t Code	et (MST) No	2	Course Co	oord(s)	Dr. Jagdeep Singh,	Dr Deepak I	Jhand
Mid Se	mester 1	est (19151) 140.	24	Time Dur	ation	1 hour 30 minutes		
Max. N	larks		24	Roll Num	ber :-			
Date of	f MST							
Note: A	Attempt all	questions		-			COs, RBT	Marks
O. N.			Que	stion			level	-
A	12 1 12 13	0	0: 4-9				CO2, L2	2
COK	What ar	e the causes of co	onflicts?	La litica?	-		CO3, L2	2
102	What is	the relationship b	between power and	i ponues:	tone voll	will take to	CO2. L3	4
203	Explain	the concept of st	tress at work. As a	manager, what	steps you	will take to	, ,	
	nrevent	and manage stres	s in the organization	on?		1460	CO2 12	1
01	Evoloin	in detail on how	groups are formed	in organization	s in different	ent stages and the	CO2, L2	1. 1. 1. 1. 1.
Q4	Explain	in detail on not	aders and working	norms.	Contraction of the	- State of the second s		
	emerger	ICE Of Information	What are the main	a causes of Job	lissatisfac	tion?	CO1, LI	. 4
Q5	Explain	Job Satisfaction.	What are the man	impact on work	force? Su	ggest measures for	CO2, L3	8
Q6	How do	es organization	culture create its	impact on work		00		
	developi	ng organization cu	llture.		A DECEMBER			
Course	Objective	s:		·	and and the	and and an owner of the second	And the second second	
	Indivi	duals'- Behaviour	in an Individual Conte	ext	i anti			
1	Group	s/Teams' - Behavi	our in an Organisation	nal Context	A			
2	Organ	izations' - How do	these Artificial Person	ns' Behave?		mit it - Levela ((PTOL	and the second
3	Organ	Lower Order Thi	inking Levels (LOTS	5)	Higher Ord	ler Ininking Levels ()		16
RBT Cla	ssification	Lower Order Th	L2	L3	L4		Creating	LU
RBT Le	vel No.	Duramharing	Understanding	Applying	Analyzing	Evaluating	Creating	,
RBT Lev	el Name	Remembering	Charlens					

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	m	BT	ech (IT)	Semester	rreennology	6		
Subject	t Code	PCI	T-114	Subject Ti	tle	Intro	duction to Mach	nine
Mid Se (MST)	mester Test No.	2		Course Co	oordinator(s)	Prof	. Rupinder Kaur	
Max. N	larks	24		Time Dur:	ation	1 ho	ur 30 minutes	
Date of	MST	16-1	05-2025	Roll Num	ber	2	203751	
Note: A	ttempt all qu	estions						100
Q. No.		2	Question	S			COs, RBT level	Marks
	Elucidiate pe	erceptron ir	neural networks	5.		4	CO1, L1	2
22	Differentiate	multi-class	s and multi-label	classificatio	n.	1 100	CO1, L5	2
23	Elaborate in Fuzzy Logic	detail the	steps involved	in the Fuzzi	ification proc	ess in	CO2, L2	4
24	Perform agg using Euclid dendrogram. A(1, 2), B(2,	lomerative ean distanc Data point 2), C(5, 5)	hierarchical clus e. Show the step s: (,D(6, 6)	tering on the -by-step pro	e following da cess using a	ataset	CO3, L3	4
15)	Use K-Mean Assume clus	s clustering ter centroic	g to cluster the folls are $m1 = 2$ and	blowing data $m2 = 4$. The	a into two gro ne distance fu	oups. nction	CO4,CO5, L6	4
~	used is Eucli	dean distar	ice. $\{2, 4, 10, 12\}$	2, 3, 20, 30,	11, 25}		100	
26)	A dataset co will play cric	ntains the cket based of	following inform following inform on weather cond	2, 3, 20, 30, ¹ mation abou itions:	11,25} t whether a	student	CO6, CO5, L5	8
26)	A dataset co will play cric	dean distar intains the exet based of Outlook	following information weather cond	2, 3, 20, 30, nation abou itions: Humidity	t whether a	student	CO6, CO5, L5	8
26),	used is Eucli A dataset co will play cric	dean distar intains the eket based of Outlook Sunny	following inform on weather cond Temperature Hot	2, 3, 20, 30, nation abou itions: Humidity High	t whether a	student	CO6, CO5, L5	8
	used is Eucli A dataset co will play cric	dean distar intains the externation based of Outlook Sunny Sunny	following inform on weather cond Temperature Hot	2, 3, 20, 30, nation abou itions: Humidity High High	t whether a	student	CO6, CO5, L5	8
	A dataset co will play cric	dean distar intains the cket based of Outlook Sunny Sunny Overcast	following inform on weather cond Temperature Hot Hot	2, 3, 20, 30, mation abou itions: Humidity High High High	t whether a Play No Yes,	student	CO6, CO5, L5	8
26)	used is Eucli A dataset co will play cric	dean distar intains the cket based of Outlook Sunny Overcast Rainy	following inform on weather cond Temperature Hot Hot Mot Mild	2, 3, 20, 30, mation abou itions: Humidity High High High High	I 1, 25} t whether a Play No Yes Yes	student	CO6, CO5, L5	8
	A dataset co will play cric	dean distar intains the cket based of Outlook Sunny Overcast Rainy Rainy	ace. { 2, 4, 10, 12 following information on weather cond Temperature Hot Hot Hot Mild Cool	2, 3, 20, 30, nation abou itions: High High High High High Normal	t whether a Play No Yes Yes	student	CO6, CO5, L5	8
	used is Eucli A dataset co will play cric	dean distar intains the eket based of Outlook Sunny Sunny Overcast Rainy Rainy Rainy	following inform on weather cond Temperature Hot Hot Mild Cool Cool	2, 3, 20, 30, mation abou itions: High High High High Normal Normal	t whether a Play No Yes Yes No No	student	CO6, CO5, L5	8
	used is Eucli A dataset co will play cric	dean distar intains the eket based of <u>Outlook</u> Sunny Overcast Rainy Rainy Overcast	ice. { 2, 4, 10, 12 following informon weather cond Temperature Hot Hot Mild Cool Cool Cool	2, 3, 20, 30, mation abou itions: Humidity High High High High Normal Normal Normal	t whether a Play No [\] Yes Yes No [\] Yes	student	CO6, CO5, L5	8
26)	used is Eucli A dataset co will play cric	dean distar intains the eket based of Outlook Sunny Overcast Rainy Rainy Overcast Sunny	ace. { 2, 4, 10, 12 following information meather cond Temperature Hot Hot Hot Mild Cool Cool Cool Mild	2, 3, 20, 30, nation abou itions: Humidity High High High High Normal Normal High	t whether a Play No Yes Yes Yes No Yes No	student	CO6, CO5, L5	8

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	Guru	Nanak Dev Er	igineering	College, Lu	dhiana		
Program	I	Department of	Informatio	n Technolo	gy		
Subject	- de	B.Tech.(IT)	Sem	ester	6 th		
Mid Some	lode	PCIT-113	Sub	ject Title	Design an Algorithm	d Analysis 15	of
(MSE) No	ester Examination	MSE -II (Jan-May, 20	(25) Cou	rse rdinator	Er. Parm	inder Kaur	Wadhwa
Max. Mai	rks	24	Tim Dur	e ation	1 hour 30	minutes	
Note: Atte	empt all questions	SP and SPA	Thomas	2 Allow OR	oll No.	220379	51
Q. No.		Ugnote(39 Quest	170 GILL	- HINJUR		COs.	Marks
61	711	Quest				RBT level	Marks
No.	Illustrate the concep	t of NP-comple	te problem	classes.		CO5, L3	2
Q.2	Compare the workin Pratt (KMP) algorith	g of Boyer-Mo im.	ore algorith	im and Knu	th-Morris-	CO4, L4	2
Q.3	Demonstrate how I matching application	Rabin-Karp alg 1.	orithm wo	rks for DN	A pattern	CO4, L3	4
Q.4	Elaborate how the Knapsack problem.	backtracking te	echnique is	applied to	solve 0/1	CO2, L3	4
Q.5	Design a backtracki given numbers repre $m = 10$.	ng algorithm to esented in a set	find all the $S = \{1, 2, \dots\}$	e combinat 3, 4, 7} wh	ions of the ose sum is	CO2, L6	4
$f_{0.6}$	Prove the equation	eq.(1); for a	n Instance	I of the	scheduling	CO6, L5	8
	problem involving:-						-
1	number of processo	rs, $m = 3;$				11 111	
	number of tasks. <i>n</i> =	= 7;				Rall	profest?
	task times (t ₁ , t ₂ , t ₃ ,	$t_4, t_5, t_6, t_7) = 0$	(5, 5, 4, 4,	3, 3, 3)		1.006	The la
	Consider $F^{*}(I)$ be the	finish time of	an optima	schedule a	nd F^(I) be	Lean	loud, le
C	be finish time of on	I ongest Proces	ssino Time	(LPT) sche	edule.		10mas
t	ne mish time of an		ssing rinte	(DI I) son	auro.		
	$F^*(I)-F^{}$	I < 1		1			
	$F^*(I)$		$3 - \overline{3}$	m			
	- (-)				eq. (1)	
urse Outc	omes (CO) Students wi	ll be able to		1		and the second second	
	Develop on under	tanding of time a	nd space cor	nplexities of	an algorithm		
1.	Explore basic algo	rithm design tech	niques like o	livide and con	nquer, greedy	y, dynamic pi	rogramming.
2.	Explore basic algo	s problem solving	g techniques	related to gra	phs.		
3.	Solve problems re	ated to strings by	applying va	rious algorith	ims.		
4.	Identify the relation	nshin between P	NP. NP-har	d and NP-cor	nplete proble	ems.	
5.	Identify the relatio	portance of appro	oximation als	gorithms.			
6.	Understand the Im	binking Levels	(LOTS)	Highe	r Order Thi	inking Leve	ls (HOTS)
RBT	Lower Order 1	initialing Devels	()		1		
Issification DT L aval	LI	L2	L3	L4	L	5	L6
No			Amelica	Analyzina	Evalu	ating	Creati
BT Level	Remembering	Understanding	Applying	Analyzing	Evalu	anng	Creating
Name		and the second second			-		

		Guru Nat	nak Dev Enginee	ring College,	Ludhiana				_
		Depa	artment of Inform	nation Techr	nology			27	
Program		B.Te	ech.(IT) Ser	nester	0	loon Ful	Stack W	eb	
Subject Co	ode	PEL	Г-109 Su	bject Title		evelopn	nent		
				Candin	Datar(s) D	r Palwi	inder Kau	ır	
Mid Semes	ster Tes	t (MST) 2	Co	urse Coordin	nator(s)	1.1		1. 13	
No.				mo Duration	1	hour 30) minutes		
Max. Mar	ks	24	11 11	Doll Num	her				
Date of M	ST	15 1	May, 2025	II. KOII IVuin					
	and all	avertions			and a state		20		Torks
Note: Atte	empt all	questions	Ouestion				COS,		lains
Q. No.							RBI leve		2
-	171 1	to the concept of	data binding in A	ngular?			CO3, L2		-
Q1	Elabora	te the concept of	data onice o				CO3 13		2 -
	Damona	strate the use of c	lirectives in an An	ngularJS web	application	1	COJ, LJ		4
.02	Demons	How the comp	onents of the sim	ple Angular a	app fit and w	Ork	CO4, LJ		11
Q3	mustrat	r?					CO4 Le	5 1	4
2	Discussion	the process to h	andle forms and s	submission of	f data in		001,20		
·Q4	Discuss	r?							
	Angula	1:			th avample		CO2, L	4	4
105)	Demon	strate different le	evels of services i	n Angular W	In example.		(CO3, 0	204	8
103	Design	a single-page m	odular web applic	ation with A	ngulai using). L6		
(Q0)	navigat	tion and routing p	parameters?				1		
	naviga			A STATE					
Course	Jutcom	es (CO)							
Students	will be a	able to		ANTAN	stack develo	pment.			
1	Develo	on web applicatio	ons using the con	cept MEAN	d Express f	ramewo	rk.		
1	Create	and design web	applications usin	g Node.js al	an web page	designi	ng.		
2	Apply	the knowledge o	of AngularJS and	MongoDB I	of web page	fdynam	ic respon	nsive	web
3	Apply	fy formulate and	solve engineerir	ig problems i	in the area of	I dy mary			11 1 is
4	Identi	ations		1 1	milication CI	reation	the state of the s	17 1	1.3.2
	Euncti	on on multi-disc	iplinary teams th	rough web a	ppilcation	dar Th	inking I	evel	s (HOT
5	Functi	Lower Order	Chinking Levels	(LOTS)	Higher Of	uer in	IIIII B		in the
RBT	1:00	Lower Order			TA	TT	5		L6
Classific	cation	T1	L2	L3	L4	L			
				1				Croot	
RBT Le	evel	2.				Ling	uating	LEA	ting
RBT Le Number	r vel	D - makaning	Understanding	Applying	Analyzing	Eval	uating	ciea	ting
RBT Le Number RBT Le	evel r evel	Remembering	Understanding	Applying	Analyzing	Eval	uating		ting

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		Guru Na	anak Dev E	ngincering Coll	cge, Ludl	lana	
			Departmen	t of Civil Engin	cering		
Prog	ram	B.Tech.	Sem	6 ¹¹			
Sub.	Code	OECE-103	Subject	Project Manay	ciment &	Monitoring	
MST		1	Teacher	Prabhjot S., G	urpreet S	Manmohan S Arna	anS
Max.	Mark	24	Time	1 hour 30 min	utes		
Date		19-3-2025	R.No.	and strained and the strain of the strained of the			
Note	: Attemp	t all questions					
Q. No				Question			Mark
ey	Differe	entiate betwe	en Gantt ba	ar chart & Mile	stone cha	art.	2
22	Catego	orize the varie	ous rules fo	or provision of	Dummie	s in network.	2
23	Planni	ng is the star	ting point c	of all managem	ent funct	ions. Discuss.	4
Q4)	Draw t for arra	he network f anging the ev	or the follo ents in the	owing project a network :-	& Apply	Fulkerson's rule	4
	A is sta	art event and	ik is end e	vent 🔹			
~	A prec	edes event B					
,	J is suc	cessor event	to F,				
,	C and I	D are succes	sor events	to B ₄ *•			
•	D is pr	eceding ever	it to G, **				
	E and H	- occur after	event C, **	C 1C	1 11		
*	Crestra	aints the occ	urrence of	G and G prece	des H,		
•	H prece	edes J and K	succeeds.), * U			
-	F restra	ints the occi	intence of	distribution cu	rve? Dif	ferentiate clearly	,
25	what is	s mean by p	hability di	stribution cura	le and be	ta distribution	-
T	Detwee	n normai pro	twork fin	d the expected	duration	and variance of	f
0	Draw u	twity Calci	ilate the e	arliest latest o	occurrenc	e time and slack	
	for each	h event & de	termine th	e critical path.	, e e un e n e	e chine und entre	-
	Tor cach	tivity	Optimist	ic Most I	ikely	Pessimistic	71
		livity	Time	Tir	ne	Time	
		1-2	1	7	1	13	
		1-6	2	5	;	14	
		2-3	2	1.	4	26	
		2-4	2	5	;	8	
		3-5	7	1	0	19	
	. / .	4-5	5	4	5	17	
		5-7	5	8	3	29	
1	-	5-8	3		3	9	
	-	70	8	1	7	22	



			Guru Nanak Dev	Engineering C	ollege, Ludhia	ana		
Progr	am		B.Tech.	Semest	er	5		
Subje	et Code	C. C. C. C. C. C.	MCI-103	Subjec	t Title	Organizational Be	haviour	
Mid S	Semester	Test (MST) No.	1	Course Coord	inator(s)			
Max. I	Marks		24	Time	Duration	1 hour 30 minutes		
Date o	of MST	April 19	20-9-2025	Roll N	umber :-	2203751	1	
Note: A	Attempt a	all questions			all a fair a start			
Q. N.			Que	estion			COs, RBT level	Marks
22	Explain	organizational bel	naviour.	Denter Bar			CO1, L2	2
(22)	Diffèren	ntiate between Atti	tude and Perception				CO2, L4	2
3	Explain	Learning. What an	re the various elemen	nts of learning?			CO1, L2	4
4	Explain	briefly: a) Job Sat	isfaction. b) Motivat	ion			CO2, L2	4
5)	Describe	e leadership. Expla	in the theories of lea	adership in deta	il.		CO2, L3	4
6)	Explain	the challenges and	l opportunities for m	anagers in usin	g OB concepts	S.	CO3, L4	8
ourse (Objective	s:	New Martin					
	Individ	Juals'- Behaviour	in an Individual Cor	ntext		San States		
	Grou	os/Teams' — Beha	viour in an Organiza	ational Context				
	Organ	nizations' - How o	to these Artificial Per	rsons' Behave?				
BT Class	sification	Lower Order Thi	inking Levels (LOTS	5)	Higher Orde	er Thinking Levels (H	IOTS)	
TLav	el No.	L1	L2	L3	L4	L5	L	6
I LEV		Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	and at 15

	Guru	Nanak Dev Enginee	ring College	, Ludhiana		
Program	Ľ	Department of Inform	nation Techr	nology		
Subject C	H	B.Tech.(IT)		Semester	6	
Subject Code	I	PCIT-115		Subject Title	DevOps: S/w Architecture	
Mid Semester No.	r Test (MST) 2	2		Course Coordinator(s)	Dr. Kamaljit Kaur and Pf. Himani Sharma	
Max. Marks	2	24		Time Duration	1 hour 30 minutes	
Date of MST			~	Roll Number		
Note: Attemp	t all questions					
Q. No.		Question		COs, RBT level	Marks	
Q1 Defi cont	ne a Dockerfile ar ainers.	nd its role in building		CO5, L1	2	
Q2 Disc	cuss four major dif	ferences between Do ints .	cker	CO4, L4	2	JN
Q3 Desc dock	cribe Docker imag ker container and e	e, how is it different elaborate the benefits	from in	CO6, L3	2+1+1	=4
Q4 Eluc	idate the concept	of Jenkins architectu	re with the	CO3, L4	4	
Q5 Illus used	trate the steps use to build projects	d to demostrate how and integrate with ve	Jenkin is rsion	CO5, L4	4	
Q6 Disc cycle file a	uss the various ste e. Explain the con and docker image	eps used in docker co cepts of docker com in detail also elabora on and kill a containe	ontainer life pose, docker ite the r.	CO6, L5	8	
Course Outco	omes (CO)					
Students will b	be able to		C	f Day Opc		
1 Contrast	the various driver	's accountable for the	e surfacing o	T DevOps		
2 Restate t	he service deliver	y process and busine	ess benefits		· · · · · ·	-1
4 Accessm	ent of critical suc	cess factors for Devo	Ops impleme	entation		f.
5 Evoluctio	one of the results	with GIT. GITHUB,	Jenkins and	Dockers		
6 Integratio	on of GITS, Dock	ers and Jenkins				
RBT Classification	Lower Order Thinking Levels (LOTS	Higher Order	Thinking L	evels (HOTS)		
BT Level	L1	L2	L3	L4	L5	L6
umber BT Level	Remembering	Understanding	Applying	Analyzing	Evaluating	Creati
ame			~			

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Program		Department of	Information College, Ludhian	na	The lot	
Subject	Cal	B.Tech.(IT)	Somerter	1		
Subject	Code	PEIT-109	Semester	0	Il Steelt Web	
Mid Som			Subject a the	Develop	ment	,
No No	lester Test (MST)	1	Course Coordinator(s)	Dr Paly	vinder Kaur	
Max Me	mles		Course Coordinator(s)	Dr. raiv	VIIIdel Iteach	
Date of M	ICT	24	Time Duration	1 hour 3	30 minutes	
Date 01 p	VIST		Uni. Roll Number	- All marked		
Note: At	tomat -11			1 James 19		A State
O No	lempt all questions					24 1
Q. 110.		Que	stion		COs, RBT level	Marks
Q1	Describe JavaScrip	t closures with ex	ample.		CO2, L2	2
Q2	Demonstrate how t	o render views ir	express file?		CO1, L3	2
03	Discuss the process	of implementati	on of MVC Pattern. Also ex	plain	CO1, L6	4
X	Vertical and horizo	ontal folder struct	ure with example.	F -		
04	Enlist the technolo	gies that make un	the MEAN stack? Explain	n detail.	CO1, L2	4
(05)	Design a common	MEAN stack arc	hitecture using a API built in	Node.js,	CO2, L6	4
Y	Express, and Mong	DB?			1.1.1	1
06	Creating a new doo	cument/database	using MongoDB and prefor	m	(CO3,	8
9	CURD Operations	like insert, upda	te, read and delete data with		CO4), L6	
	examples.				1	1.
Course (Outcomes (CO)	,				
Students	will be able to					
1	Develop web appli	cations using the	e concept MEAN stack deve	lopment.		
2	Create and design	web applications	using Node.js and Express	framewo	rk.	
3	Apply the knowled	lge of AngularJS	and MongoDB for web page	ge designi	ng.	h
4	Identify, formulate	and solve engin	eering problems in the area	of dynam	ac responsiv	e web
	applications	ſ				
5	Function on multi-	disciplinary tean	ns through web application	creation		
-			and the second se			

RBT	Lower Order	Thinking Levels	(LOTS)	Higher Ord	ler Thinking	Levels (HOTS)
Classification RBT Level	L1	L2	L3	L4	L5	L6 •
Number RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

	Gur	N					
~	Guit	Donast Dev Engine	ering College,	Ludhiana			
Program		Department of Infor	rmation Techn	ology			
Subject (Code	B. Tech.(IT)		Semester	6		
		PCIT-115		Subject Tit	le DevOp	s: S/w	
Mid Sem	ester Test (MST)				Archite	cture	
No.		1		Course	Dr. Kar	maljit	
				Coordinato	r(s) Kaur &	c l	
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Max. Ma	rles				Sharm	a	
	1173	24		Time Dura	tion 1 hour	30	
Data of h	1000				minute	es	
Date OI N	151	20-03-25		Roll Numb	er .	a frida a seco	
Notes Au							
Note: Att	empt all questions		and and a fear of the		100 10		
Q. No.		Question		COs, RBT	Mark	S	cahp
0				level			
Q1/	Illustrate various	steps involved for	moving the	CO1. L2		2	
	process from worki	ng to staging area an	d the concept	,			
	of unstaging	ing to stuging area an	ia nie concept				1 Martin
62)	Distinguish four m	aior differences of (Git merge and	CO5 I 5		2	
~	GIT rebase	ajor unrerences of c	on merge and	005, 15			
62	Ult rebase.	and of Design Pro	mlain have it	CO3 I 2		4	
23	illustrate the conc	ept of Devops. Ex	in in datail	005, 12		T	
2	works? Also explan	n various Devops too	ols in detail.	1 004 12		1	
Q4)	Explain the concept	of "Immutable Infr	astructure an	id CO4, L3	(4	
	its benefits in a I	Devops environment	t. How does	10			
0	differ from tradition	al infrastructure ma	nagement?	000 14		1	
Q5)	Compare and c	ontrast continuous	integration,	, CO2, L4		4	
)	continuous deliver	y and continuous	deployment.				
0	How do they contri	bute to the Devops p	oipeline?				
661	Design a simple (GIT workflow for	a small proje	ct CO5, L6		8	
	Deoler a charter	atoms for area	ting branche	oc l	Carl & Special William Statistica Statistica		The second se
20/	team -Include th	e siens for crea	ang branche				in the second
20	team. Include th	e steps for creaters and merging brains	anches into t	he			
20	team. Include the committing change	es and merging bra	anches into t	he			
20	team. Include the committing change main branch.	e steps for creates and merging bra	anches into t	he			
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Note: Atte	mpt all questions			R	oll No.		
Q. No.		Questi				COs,	Marks
6	and the second second	Questi	on			RBT level	
Q.1	Define the principle	e of optimality.				CO2, L1	2
(cQ.2)	Formulate the Big-(Dh notation of th	e following	g code snip	pet:-	CO1, L6	2
C	for (i=0: i <	n: i++) {			•		
10-11	for (i=0	i< i; i++) {					
	101 () -0,	statement: } }					
63	Illustrate the perfor	mance of algori	thm using	Divide an	d Conquer	CO2, L3	4
2.0	technique to find M	aximum and Mi	inimum va	lues from a	an array of		
6	'n' integers						
61	n integers.	plication of dyn	amic-prog	ramming a	pproach to	CO2, L3	3 4 :
Q.4	Demonstrate the ap	anh problem	unne, prog		11		
	solve multi-stage gi	apii problem.			100	GOD I	1 1
-0.5	Compare the effic	iency of Bellm	nan and -H	Ford Algo	rithm with	CO3, L	4 4
C	Dijkstra's algorithm	to solve single-	source path	hs problem	in a graph	•	
66	Justify that dynar	nic programmi	ng approa	ach ensur	es optima	1 CO2, L	.5 8
Q.0	solution than a gree	dy algorithmic	approach	for earnin	g maximun	1	
	solution than a gro	ansack problem			1.		
	proju ioi uic 0/1 Ki	vill be able to					
Course Out	Develop an unc	lerstanding of tin	ne and space	ce complex	ities of an a	lgorithm.	
1.	Explore basic	algorithm design	n techniqu	es like div	vide and co	onquer, gre	eedy, dynamic
2.	programming						
-	Explore the yer	ious problem sol	ving techn	iques relate	ed to graph	s.	and the second
3.	Explore the val	related to string	s by apply	ing various	algorithms	5.	
4.	Solve problems	tionghin botton	n P NP N	P-hard and	INP-compl	ete proble	ms.
5.	Identify the rela	tionship betwee	mrovimet	ion algorith	nms.		and the second of a
6.	Understand the	importance of a	pproximati	Higher O	der Thinki	ng Levels (]	HOTS)
RBT	Lower Order Th	inking Levels (LC	515)	Ingher Of			when a second
lassification	1	L2	L3 ·	L4		L5	L6
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O.	Remembering	Understanding	Applying	Analyzing	Evalu	ating	Creating
ame		Children Startes	late				
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lid Ser MST)	mester Tes No.	t	1		Course Coord	inator(s)	Prof	ning 7. Rupinder Kau	ır
lax. M	larks	2	24		Time Duratio	1	1 hc	ur 30 minutes	
ate of	MST	1	18-03-2025		Roll Number				
ote:A	ttempt all o	questions							
No.			Q	uestion	S			COs, RBT level	Marks
	What is t programm	he key dif ning?	ference bet	ween ma	achine learning	and tradit	ional	CO1, L1	2
	Illustrate h	nyperplane	and support	t vectors	in SVM.			CO1, L5	2
	Discuss at	least four e	evaluation r	netrics f	or regression.			CO1, L3	4
	Explain Li	near Regre	ession and o	obtain th	e regression eq	uation of	V on	CO2, L2	4
	у	3 7	5	10	-				
	Differentiat	te amongs	t Supervise	ed, Uns	upervised and	Reinforce	ment	CO1, L4	4
	Differentiat Learning w	e amongs ith suitable	t Supervise examples.	d, Unst	upervised and	Reinforce	ment	CO1, L4 CO5, L6	4
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b) Out Appl Ident Apply	Differentiat Learning w. Differentiat Learning w. Sno. Sky Sunny Sunny Rainy Sunny Examine justificat comes (CC ly Supervi ognize and pr ify suitabl y machine	e amongs ith suitable ict decisior AirTemp Warm Warm Cold Warm cold Warm the stop ion with so O)Students sed Learni formalize resent the e algorithm learning a	t Supervise e examples. h tree algori Humidity Normal High High High High going criter ound argum s will be ab ing, Unsup- a task as a predicted r ms to tackl algorithms	thm wit thm wit Wind Strong Strong Strong Strong Strong chants. <i>le to:</i> ervised machir nodel. e differe to real of	upervised and h given exampl Water Forec Warm Same Warm Same Warm Chang Cool Chang d in decision learning, Deep he learning prol ent machine lea datasets.	Reinforce ast Enjoy Yes Yes e Yes e Yes trees. Pr Learning, olem.	ovide	CO1, L4 CO5, L6 Eat 5 $Jv \gamma$ CO6, L4 co6, L4 co6, L4	4 6 star nothing 2 niques.

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