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مخرجات تعلم	C9	Employs k	mowledge	of the laye	red stru	cture of a	compute	ernetw	ork and w	rious ne	twork pro	tocols.																		
	K1			fferent con				ms																						
	K2	Ability to	identify d	fferent pro	grammi	ng and da	tabase																							
	K3	Ability to	identify d	fferent con	puter c	omponen	ts and are	chitectu	re																					
	K4	Ability to	dentify d	fferent con	puter	etworks a	nd securi	ity																						
	S1 Explain and practice basic proof techniques and Use different mathematical theories such as, sets, number, probability, and graph theories																													
	\$2	Design , Analyze and use a wide range of data types to solve a problems and explain the concept and the role of data types in software development.																												
10s	53	Apply advanced techniques for performing complexity analysis of algorithms for solving algorithmic problems, including divide-and-conquer, greedy, dynamic programming, graph algorithms, backtracking and enumeration																												
LUS	\$4	Analyze a	problem	and Determ	ine the	steps nee	ded and	create a	methods	to solve	a problen	1.																		
	\$5	Explain and use the basic and advanced 0.0 concepts and use of Unified Modeling Language (UML) diagrams for analysis and design of object-oriented software																												
	\$6	Describe and use the core concepts and constructs of visual programming. And Transform user in									er interface	designs into	code																	
	\$7	Categoriza	e and desi	ribe differe	nt web	developm	ent techr	nologies	. And bui	d Websi	tes using v	veb develo	ment tools																	
	\$8	Explain the concept of database and its benefits and Categorize and describe various database models (Relational, object oriented, network, hierarchical models)																												
	59	Design, analyze and interpret digital logic schema and identify the fundamental components of computers (CPU, memory, buses, peripherals) and describe their interrelationships																												
	\$10	Explain th	e role of t	he OS and i	ts comp	lete funct	ionality.	And Ide	ntify the i	nterrela	tionship be	tween the	OS and the o	ompute	architectur															
	S11																													
	\$12	Describe t	the working	g of layere	d netwo	rk archite	ctures (0	SI and T	CP/IP). E	plaining	the main	network pr	tocols by id	entifying	the function	s of differe	nt network	devices an	discussing	their inte	gration									
	\$13	Describe t	the main t	ypes of atta	cks and	their cate	egories It	identifi	es the ma	in secur	ty objectiv	es, defines	basic securit	y conce	ats and princ	iples, and e	xplains the o	oncepts a	nd mechan	isms relate	d to encryp	ition, author	entication,	and autho	rization.					
	\$14	Explaining	the conc	ept and ho	w to org	anize com	municati	on netv	orks, the	rworkin	g mechan	isms and fu	nctions, app	lying the	m to commi	nication ne	tworks and	protocois,	identifying	communic	ation interf	aces and d	efining the	r characte	ristics. Eval	uation of c	ommunicat	ions soluti	ons based o	n the desi
	\$15	Define the	e concept	of concurre	ncy, pa	rallelism, r	nessage	passing	remote p	rocedur	e call and	remate obj	ect access, o	bject-ori	ented netwo	rk commun	ications, mo	bile codes	and peer-	to-peer sys	tems. Regu	lating wire	less commu	inications	networks. A	Apply in-de	pth knowle	dge of wire	eless comm	unications
	516	Distinguis	h betwee	connectio	n-orien	ted applic	ations an	d non-c	onnection	-oriente	d applicat	ions. Distina	uish betwee	n iterati	ve and conc	rrent serve	r design pro	cess.												