Total No	o. of Questions : 8] SEAT No. :			
PB38				
	[6262] 129			
T.E. (Information Technology Engineering)				
COMPUTER NETWORKS AND SECURITY				
	(2019 Pattern) (Semester - II) (314451)			
	1/2 Hours] [Max. Marks: 70			
1nstructi 1)	ions to the candidates. Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.			
2)	Neat diagrams must be drawn wherever necessary.			
3)	Figures to the right side indicate full marks.			
<i>4</i>)	Assume Suitable data if necessary.			
01) a)	Explain the connection establishment and data transfer phase in the			
Q1) a)	following routing protocols with suitable diagram. [9]			
	i) AODV			
	ii) DSDV			
b)	Explain with diagram Layered Architecture for Sensor Network. [9]			
	OB			
02)				
Q 2) a)	Differentiate between infrastructure network and infrastructure less			
	network.			
b)	What are hidden station and exposed station problem in WLAN. [6]			
c)	Explain Distributed Denial of Service attacks. [6]			
	6) 8ix			
Q3) a)	What is network attack? Write short note on following with suitable			
/	example? [8]			
	i) Active attack			
\circ	ii) Passive attack			
/ 3				
b)	What is Cipher Feedback Mode (CFM)? Explain the process of CFM			
	with suitable diagram. [9]			
	OR OR			
	P.T.O.			
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Q 4)	a)	what is Electronic Code Book (ECB) Explain the process of ECB was suitable diagram.	1th [5]
	b)		[6]
	0)	i) Unauthorized access	ſο]
		ii) Distributed Denial of Service (DDoS) attacks	
	c)		[6]
	<i>(</i>)	Differentiation of the artifact and I assive artifact	[0]
Q 5)	a)	Define and list various computer network security mechanisms Also w	rite
			[9]
		i) Encryption	
		ii) Decryption	
	b)	Define and explain digital signature. What are the applications of dig	ital
		signature.	[9]
		OR	
Q6)	a)	Define the following mathematical preliminaries and also explain	
			[9]
		i) Prime numbers	
		ii) Group	F07
	b)		[9]
		i) Public key encryption	33
		ii) Hash function	\$20
0.7)	\	WILL STATE OF THE	, ,
<i>Q7</i>)			[8]
	b)		[9]
(10)	۵)	OR What Is Cub austallying a symbolic with an assemble	ro1
Q 8)			[8] [9]
	b)	Explain the term rinsining & SQL injection with a sunable example.	[9]
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7		26.	