Unit No. 01 Assignment No. 01 1. Discuss generations of Wireless Networks? We have made very huge improvements in where less communication and have expanded the capabilities of our nireless Communication System. 1G (1st Generation):-(Attention) & first time calling was introduced in mobile Systems \* H used analog signals. to It used FDD scheme and typically allocated bandwidth of 25 Mhz. \* Coverage area was small. 29(2nd Generation): \* shifted from analog to digital that supported voice and sms both. \* Moderate mobile data Service. a Da WLAN provided high data rate & large area Coverage 3G (3rd Generation): of Irriemed system was improved. \* Better System and Capacity. \* offers high speed whireless Internet \* Connection used as UNTS and WCMA. 4G C4th Generation + IP based protocols. A LTE clong term Evaluation) was mainly for internet. -6 vo-LTE (voice over LTE) is for both voice and internet. \* High usability.

I Supports multimedia service at John transmission cost

5GC5th Generation):

\* Higher data rates.

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	+ Cannot	ivity will be more fast and So	ecure.
		dency will be reduced to a gri	
		network capacity.	
2)	Compare	whired and whireless Networks.	- (ruleren leb all
	S.No	nlired Jethork	nlireless Network.
	A:	A Warred Network employes	Wheless means without
70	<del>Al bilaha</del>	wheres to lank devices to	where, media that is
		the Internet (ov another	made up of electromagnetic
		network, such as laptops	nlaves (or) intrared mlaves
		on desktop.	Continued Second
		Polyth at	pelana noth billutab
	۵.	Faster transmission	slow transmission
		Speed.	Speed.
		quan run quit che alende	h li
	3.	propagation delay is	propagation delay is
		don	high.
	Λ.	More Secure & hence	less Secure & hence
	4.	reliable.	
		The late of the	and the same of th
	5-	Dovices must be hard	Installation is Quick.
		Wired	
		and the boundary of the sail of the	
	6,	Less-Expensive	More Expensive
			dender de la constitución de la
	7.	High installation &	Low installation &
		maintenance cost	maintenance cost.

S

	ASSIGNMENT TO THE PROPERTY OF
The second second	8- Hub, subtch, etc. devices are utireless ratters, access points
	used etc. are used
	9. speed and Bandwidth is speed and bandwidth is
	high Loul.
	in connection setup time connection setup time is
	is less more.
	is less
	41. Quality of service is Quality of service is
	A April A
	Better Poor
. 1	What is vehicular Adhoc Network? Szplain.
9)	
	Vehicular Ad Hoc Nothlooks:-  - I VANET is a particular ease of ulireless multihop netuloxk, which
	has the constraint of fast topology changes due to the high
	node mobility.
	I with the increasing number of vehicles equipped with
	computing technologies and wireless communication devices,
	intervehicle communication is becoming a promising field of
	research, standardization, and development
	I VANETS enable a which range of applications such as
	prevention of collisions, safety, blind, crossing, dynamic route
	scheduling a real-time traffic condition monitoring etc.
	* Another important application for vallets is providing
	Internel connectivity to the vehicular nodes.
	* VANET is a new type of mobile ad hoc Network that comprises
	self-organizion vehicles as mobile nodes
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\*vANlet, which encompasses vehicle - to - vehicle (v2 V) and vehicle to roadside (V2R) Communications, has been proposed for enhancing safety eollision avoidence. rehicle location is another target of particular interest to attackers \* Mobile Vehicles in VANET might play the role of stationary sensors in infrastructure based networks. hored Network VANET Application: \* co-operative forward collision warning. to bre crash sensing / warning. \* Route Guidance & navigation & optimal speed advisory \* Internel access in vehicles a point of access in vehicles at point of Interest notification. + Hazardous location notification.

	ASSIGNMENT NO.
	Explain 59 technology its advantages and disadvantages?
	56 Technologus
	* 59 - Technology is expected to provide a new frequency bands
	along with whider spectral bandwighth per frequency.
1	kH is yet to come in many Countries.
-	tigher data rates.
	Le fast and security connectivity
1	Data latency Will be reduced.
	k 30 times -Paster than 4G
	k Massive network capacity
-	Advantages:-
	tigh reselection and bi-directional large bandwidth shaping
	rechnology to gather all networks on one platform
	k More Effective & efficient.
	provide huge broadcasting data
	Le Supports heterogenous Services. Le provides uniform, un interupted & consistent connectivity across
_9	
	the world.
	Higher douln load Speed.
2	Hyper Connectivity.
_0	process Optimization.
I	Disadvantages:-
2	Immediate obsolescence - 59 require devices that Support it but
	current 4G devices can't support 5G, hence become obsolete
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\* Insufficient Intrastructure. \* Expensive. of Risk of Security & privacy issues possipal ag attached bands white per hequeon