(a) Explain 4(x)/56 (ellular Metwork.

Inst (allular bechnology to the Foundation of mobile wirdess communication and support users in locations that are not easily sener by usined Metwork.

The cellular Technology consist of Four Fixe

Fint Coneration

The original cellular Metwork now dubied 14, provided analog traffic Channel, and were designed to be extension of the public 3 witch. The most widely deployed 14 system was the Advanced Phone Mobile Phone Source (AMPS).

Second Generation

9 Second Generation (2G) were developed to

provide higher quality Signeli , as compan

to First Generation (1G).

Then one many differente between

That one Second Generation on Follows.

ODigital Traffic channel. & Euchbuson Elesor detection and correction. (a) Chonnel access.

There Generation The main purpose of Three acnosting is to provide famy high - speed writes communchs to support multimedia , data and video in addition to voice.

Fourth Generation

The Evolution of Smortphone and cellular hotwork , how ushered in a new generation of capebilities and standard. which is collectively called 44. It is faiter then 34 network and be used in TV, Inc video callo connectivity.

Fifth Generation

50 System are still some years away, but will be faiter and better Then 44 network.

59 Metwork will be used to had handle huge of amount of practice Generated by Toslet, mobsic, etc. all consel access. " hard and bond" The exercise perspore of There according a percentle front brigh specificantes commin to support multimedia, eleta and colto . mount northboard Fruitto Germantias The Contestion of creatphone and college partition is free telescent to a new principles 1 total sentente loca - Hill Bargery to entropies out of the the the other all the state of local por distance of with the comments. 

(3) Explain Type of Metwork and Internet-And Types of Traffic: @ Flaits e Traffic. @ In Flaytic Traffic Great Traction Changeterities. OFFaitic Traffic Flaitse Traffic is That which can actut, over wide ranger, to change in delay and Throughout across on internet and still meet the needs of its application. This is the traditional type of Traffie Supported on TCP/IP -based internet and is the type of trofic for which intermet were designed. Transmission control Protocol (TCP) for User Datugram Proteosi (UDP) is an transport protol. In the care of UDP, the application will use as much as capacity as is available up to the vate that the application generator data

@ Inflaince Traffic :-Intelactic traffic close not even if you confine your attention to elastic traffic, some service privitizing and controlling traffic could be of benefit without Such as Server, toouten are cleating evenhandedy with arriving 2P packets, with no concern For the type of application and whether a portreular packet is port of a longe trasfer element or a small one. Under such arramstone , and if congention duelopi, it is unlikely that recourse win be allowed to such a way to out on need of all opprections 100 Red Tout Touther

And Software as a Service (Saas)

Platform and Service (Paas)

Infrastructure and Service (Jaas).

Software at a Service (Saar).

In This type of Sorvice, the sirvice is provided to the curtoner in the Form of Software.

Saus Enobles the automer to use the Cloud provider's application, minning on the provider Cloud Infrastructum. The application on alless the Front various cloud desire through a simple Interfect Such or was browser. Instead of obtaining destrop and senior licence for coftware product it uses. an exitensine obtain the saide function from the cloud sinvice.

The uning of sasis removers the Complexity of software Intellation, configuration problems, etc. Configuration problems, etc.

Platform as a Sente.

A paas at a service services to contoner on the Form of a platform on which the contomer's applications can mo.

faci enable the customer to deploy onto the cloud infrastructure customer - createdor

A paas cloud provider aleful Softwore building tool,

Paul is useful for an organization that wants to develop new or tallored application. while paying for the needed, computing resource only as needed and only for as long as needed.

Appengine, Azure, etc on the Example of Paul.

Introstructura au a Service The customer used, or how acceu to the resource of underlying colud inFrastrutur. Idea provide virtual mactines and other abstracted hardwar and operating system. Ina I aas offer the curtomer processing storage. networks and other fundamental computing Mounce So that the Contones con deplay and one . arbitrary softnose, which can include operating gylka and application. Jaal eneble contoner to combon bare competing senseen, Such as monitoring counching and alter storage. Vanctori Currentry offering each service: OBactop and Recovery. D Would broker 3) Corepute @ Content delowy network. D'Envice management (3) Storage

Explain various component of 207-Enables (16) Things. Untof componenti :-O Snior. 1) Actuatoris 3 Thicro controllen Carbodoled Sylvery & Tollen Miceria 96 Transceiven RFID. (Radio - Frequency 2 dentification). @ Sensor. Sensoni paly phy'i an important Role in The 201 Thing! Senioni sence" / get the data From the atmosphere or environment and convert Hinto the digital signal. Mean's it accordy takes a analog data and convert it into digital delice. Excripier Fingerprint Sensoris, Smoke Sensor ck.

6) Actuator,

Actuatoris are the next part of & senior. on the pace base of the digital data teres by the Sensor or encled by the sensor is further processed and. on the ballie of thet the Actuator perform the Action. It basicely cetter atact as a Couback Function For Sensor.

37 temocontroller. Microcontroller on the same computer which is capable to perform a particular face assigned to them.

Micro convoller consilt of Rom, Rom, processing thip and many other small things which make them a micro computer They are particularly design to perform a particular talk obly.

Frampler Washing Flachme, Refrigoretor, etc.

a) Transceinri.

Transceiver is nothing but the comprinction of Transistor and Receiver.

It air ai a both.

It transit the data as well as peculia the data disjirted data and perform algorithm on it.

The upper part of the

The half port of the Transcerer transmit
the tre deta, means take the analog
deta, and com: means the input signal
and with with the help of oscillator
a carrier Frencency II generated which
teter the input signal to the power Anspiror
to Antenna.

Then other Antenna transmit the Signed and then the annother haf signed and then the annother haf attack attack act as a Receiver antenna means the transmiked data from Antenna means the transmiked data from Antenna is Received by Ampsifier and Filter Further to remore the carrier frequency and to remore the carrier frequency and again output the original input signal.

O REID. RF2D Standi For Radio Frequency 2 dentification The main elements, of an RFID system are tagi and readeri. PFID tagi ore small programmable devices used For object, animal and human tracking. They come in a variety of shaper, size, and functionality and cost. RFID readers acgine and sometime. rewrite information stored on RFID tag tech come within operating range. Reader on usually cornected to a computer system tect record, and Formet the acquired information for further user.