HITP HEADER FILES :-

Rttp header fields provide required information about the request or suspense or about the object sent in the message body. There are four types of HTTP message headers.

- * General Header: These header fields have general applicability
 for both request and response messages
- * Client Request Header: These header fields have applicability only for request newsages.
- * Sower-Response header:- These header fields have applicability only for response messages.
- * Entity-header: These header fields define meta information about the entity body or if no body is present about resource identified by the request.

General Headers:

The header fields are:

- -> cache control.
- -> Connection.
- -> Date.
- -> Pragma
- -> Taailer.
- -> Warming.

Client Reguest Headers:

The header files are:

- -> steept.
- -> Accept Encoding.
- -> Accept Language.
- -> duthorization.
- -> Cookie.
- -> Host.
- -> If Match
- -> Proxy shuthorisation.

Server Response Headers:

The header files are:

-> Accept - Range.

-> Age

-> Location.

-> Vaory.

-> NNW-Authentleate.

-> Sower.

2)

→ set-cooke.

Entity Headus :-

The header files are:

-> Luow

-> Content-Endonding

-> Content - Language.

-> Content - Length.

-> Content-docation.

-> Content - MOS

-> Exprines.

FTP COMMANDS AND REPLETS.

HOST - Identify desired vistual host on seower by name.

LANG- Language Negotiation.

EPSV - Enter extended passive mode.

DELE- Deleter File.

ccc - Clear Command Channel.

APPE- Append.

ABOR- about an active-file transfer.

ACCT- Lucunt Enformation.

ALLO-Allorate sufficient dist space to receive afile.

AUTH- Authentication/ Security Mechanism.

5) RFCS OF HTTP:-

In June 2014, WG released an updated sxix-port specification and RFC 2616 Now made obsolete.

RFC 7230 - Russed as part of HTTP (VI.1. It was concerned with message Syntax and Routing.

RFC 7231 - Released as post of HTTP/VI.I. 9+ was conserred with semantics and Content.

RFC 7232 - Released as post of HTP/ VI.I . Concerned with Conditional Regnests.

RFC 7233- Released as part of HTTP/VIII. and holds Range Requests

AFC 7234- Released with HTTP/VIII and holds Caching.

RFC 7235 - Released with HTP/VIII and Controls Authentication.

RFC 7540 - Published in May 2015 as past of HITP V2.0.

2) VARIOUS OPTIONS OF TUP:-

There are five major options that one associated with Texand they are the following.

MAXIMUM GEGMENT SKE:-

It is used to define the max. signent that will be used during a connection between the hosts. As such, the option is used during the syn and syn/Ack phase of the 3-way handshake. The MSS TCP uses 4-bits of the 32 bits of length.

MINDON SCALING: It is exsentially an extension of window size flag. It can be maximum of 30 bits in size. It was breated for high latency, high boundwidth WAN links where a limited widow size can dent performance.

SELECTIVE ACKNOWLEDGEMENT: - Of segments assive out of order, then a hole is created in the receiver's queue. So a nobust ACK was introduced and thus came selective ACK (SACK). It is 216-bit fields. The 2 fields are beause the necesiver has to specify the range it received.

TIMESTAMPS: - For TCP to accurately set the Honor thoreshold Nature for a Virtual Circuit, it has to measure the round trip delivery times for various segments. Finally it has to monitor additional segments thoroughout the connection's lifetime to heep up with the changes in the natural. This is where the Timestamp option comes into the picture. It has two fields echo and neply both are a bytes long.

NOP :-

The nop Tep means "NO Option" and is used to separate the different options used within the TCP option field. The implementation of the nop field depends on the OS used.

NOP occupies I leyte.

DUS WANG UDP INSTEAD OF TCP:

The major reason is performance. Tet connections are vory expensive with the whole SYN, SYN-ACK and ACK chain of events. A DNS response can fit within a single packet with lots of norm to spare, so using TCP for DNS seems unfruitful. UDP is fast, reasonable, reliable and simple so a statites protoed like UDP is sufficient for DNS.

DOMAIN NAMES :-

The common domains are com, in, edu, edu, ac.

- · organisational domain.
- ·Info Informational domain.
- · org. in organisational domain for India.
 - ·tv television domain sused by broadcasters.
- · mobile used for mobile wedesites.
- net Originally intended for Network companies.
- · co·in company domain for India.
- ·gov.in- India government's websites 'common domain.
- nicoin National Information Centrés domain
 - ·ac-academic organisation domain.

7) NSLOOK UP :-

a) relookup www.geagle.com

soure : 127.0.1.1

Address: 127.001.1453

Non-Authoritative sower:

Name: www.google.com

Address: 74.125.200.103

Name: New google com

Address: 74.125.200.99.

b) nslookup www.facebookein.

Sawa: 127.0.1.1

Address: 127.0.1.1453.

Non-authorative Souver:

Canonical name: www.facebook.com

Name: star-mini CIDI, facebook com

Address: 157.240.16.35.

c) notookup mm.flipkart.com.

Sower: 127.0.1.1

Address: 127.0.1.1 #53.

Comonical Name: flipkart, com

Name: flipkant.com

Address: 163.53.78.128.

d) relookup NNW. zomato.com

Sover: - 127.0.1.1.

Address: - 127.0.1.1 #53.

Non-Authoritative Service:

Name = zomato·com·edgebey-net.

communical Name = e11566. b. ahamaiedge.

Name: e11566. b. abamaiedge. net.

Address: 104.122.5.136.

e) nelookup num. gmail. com

Seguer: 127.0.1.1

Address: 127.0.1.1#53.

Non-Authoratetateve Server: www.gmail.com

canonical reame = non. gmail. com.

Name : goglemail le google com.

Address: 216.58.197.69.

ANALYSIS OF FIVE WEBSITES.

NEB APP	BANDWIDTH SENSITIVITY	TIME SANSTINITY	LOSS TOLERADILITY	PROTOVOL
Amazon	Moderate . This is due to the images and volumnous dela tration displayed	doading time is No heavy files are Involved.	doss tolerant.	TCP.
Youtube	Requires a dot of Bondwichth owing to the large Video files	doading Varies with speedof Network.	Loss Intolerant.	TCP.
Grail.	Zandwidth insensitive	Time insensitive	Loss Infoloan	smtp.
Droploox	Boldwichta sensitive	Time groensitive	LossIntolucud	TCP/ FTP·
Facebook	Bondwilla sensitive	Time insensition	Loss	top.