Name!-Soham Kundu Section!- CE Roll No.1-41 Q) A server needs to be connected to 5 clients. Demonstrat any three topologies to make such connections through differente diagram. Name each topology and an advantage of each of the topology and offered. Holan topology -Client Client Server Iclient Iclient. Star topology carriet of a central node to which other nodes are connected by a single poth. a davantage : · Simple access protocols. · Ease of service Bus topology

[Client] [Client] | Client]

[Client] | Client] | Client] # Bus topology

This consist of a single length of the transmission medium onto which the varieous nodes are attached Advantage; · Short able length. · Easy to extend. # Ring topology [Sover] Idient Idient Citent 1 Clent It form a sing connecting devices with exactly two neighboring devices. I number of repeaters are used for king topology with a large number of nodes. a delvantage · Short cable length · Cheap to install.

Enlist any two characteristles of http. Differentiate between http and https.

Characteristles of http:

Define a connectionless protocol because often the connection is closed the server does not remainber

If is a connectionless protocol because ofter the connection is closed the server does not remember anything about the chient and the client does not remember anything about the server.

ii) It is a stateless protocal because both dient and Server do not expect omything from each other but Hey are still able to communitate.

HTTP	HTTPS
*Hypertext transfer prototol.	Hypertext transfer
# It is considered to be	Protocol Securee  # It is considered
unsecured.	Sexwed
E HTTP does not improve	Alt helps to improve
Search ranking	Search ronking.

23) Draw a neat diagram of a Chent Server Architecture Explain each components breafly.

[Client]

Client

Client

Client

Components of client server archetecture are: It is the system of users that are sometimes also married as Client Computer. · Workstations = An ultra-performance device that retain a fast processing speed with more storage & robust memory to deal with multiple requests appropring shoultaneously from various workstation. · Networking Reviews: workstation and server are interconected with each other by means of specific medium. (29) Create a webpage that displays the name of and photograph of the CEO's of the following IT Osigennization:

(2) Herosoft Rosporation.

(3) JBM 2 Secentrone @ Oracle O Amazon Inc. < html) <heads
<title> CEOs of IT Organization </title> Lbody by color = "Orched) Ltable align = "center" Cellspacing = "20"> ¿ caption & font color = "blue" (h1) (u) The name and photographs of CEO, of vordous IT Organicaflow 2/4) 2/h1) 2/font 2/ captlery

Ita bocolor "pink" align = "center"> Ltd Lh2 Mirosoft Corporation "L/h2) Lling See Soc 2 "Satya . Speg " alt 2 "Sutyer Nadella ") (h3) Lens Satya Nedella (lens (1h3) (1td) (td) (h2) IBM> (1/2) Ling & Dec = " Awind . Jpeg " Alt - "Avind Krishnas < h3> < enr) Arvind Korishna & (1h3) < /end < /td) (tel) (en) A ( h2) Accenture (/h2) Ling son = " Julie, jpeg " alt " Julle Terese") <h3> <en> Julle Terese (1em) (1/h3) (tel) (h2) Oracle (1/2) Ling sow = "Lafra . spg" Alt = "safra Ada Catz"> < h3>(en) Safra Ada (atz L/en) 4/h3) (1td) Ltd (h2) Amazon Inea (1h2) 1 sing sex 24 Andrew " Spg " alt = " Andrew R. Jerry "> < h3×em) Andrew R. Jassey (em) </h3) </td> 4 body Q5) Create a webpage that displays the following content an brower. (html) (head) Ltitle Question 5 2/title 2/heard

(h2) (Pre) & It; Atmi & gt; dut; title legt; Assignment I & ht; / title Legt; dit; head dgt; & It; Thead & gt; & It; body & gt; content of web page should be displayed delt; (body lgt; & lt; / html & gt; 4/1) 21body) 2/html> a6) Create a verbyoge that dosplays the mathematileal formula for the following @ Area of drile ( Trignometric Adorti Identitles with ongle alpha () ( Square of Catb) @ lube of (atb) afference blu squares of two varible @ Cravitational force @ Comito Khiethe Energy I Relation bofor density (P), mass and volume E Relation the marsh energy. One table to display the formula use CSS to display acceptable book and feel < httm (title > Methematikean formula ( title) body & background - color: green; } table I background-color: skybbie? ?

aptlen & font-size : 35; Color aned; } th 2 fout- in Size :30;} to a bout-size: 2003 1/Style > (1 Lead) (body) L'aption (h) Some matternatileal formula (1/4) 2/Caption (tr) (th) Area of Circle (/td) (td) Area = & pi; radilus (sup) 2/18up) (td) //to) (to) (td) Trigorometric identities eveth angle alpha (d alpha;) </ta> (td) (1) Sin (1808 deg; - Lalpha; ) = Sin Lalpha; (1) cos (1808 deg; - Salpha;) 2-Cox alpha; (li) (1) Cosee (1808 deg; - Lalpha;) z-Bosed alpha; (11i) Li) Sec (1808 deg; - Lalpha;) z - Sec & alpha; (11i) Li) tan (1808 deg; - Dalpha;) z - tan & alpha; (11i) (li) lot (1808 deg; & alpha;) = - Cot & apha; (tr) (td) Square of (a+6) (tdd) (a+b) (sup) 2 (/8 up) = a Sup) 2 (/8 up) + b (Sup) 2 (15ub) + 2ab.
(1to) Lty Ltd Cube (a+B) 4td) (taplants) 3 </ Sup) 3 </ Sup) + 2 a (Sup) 3 </ Sup) + 6 < Sup) 3 </ Sup) +3 ab(a+b) (Hd) (Hn)

to tel Difference between squares of tree vorilables (tel) a (sup) 2//Sup) - 6(Sup) 2 (Sup) 2 (a+6)(a-6) 4/ta) Utr / the period of a pendulum (T) (14d) (to) . 7=28pi; (#8730; L/g (1td) (/to) (tr) (tet) Consultational Force (F) (1td) (to) E= (CnMm) (56Sup) 2(1Sup) (1td) (1th) (th) (td) Kinetics Energy (K.E.) (1td)
(td) K.E. 2 (frac 12; mvSup) 2 (Sup) 2/td) 4/to (ta) (ta) Relation bolw mass (m) & Energy (m) (td) Ezmc (sup) 2 (/sup) //td) /th) (tr) (td) Relation between density (47ho;), mass (m), and volume (V) (Hd) Ctd) & rho; 2 m/v (td) (tt) 4 table> (1 body) (/html) of or an organization named ABC INFOTECH. It should ask the user to input the following details for registering the user for recruitment: Wer Name (b) Password (c) Conform Password

d Email old. @ Contact Number. & Crender @ Hightest avalification Ch Languages Known (English, Hindi) (1) Preferred programming Language (C++, Java, Plython) 1) Two lines to describe yourely. Ose tables to display labels and input fields in proper alignment o Use CSS to display with acceptable look and feel. Apply html 5 validations as follows. @ No field should bet last blank. Broble member should take digits only. ( Email should be in correct format. =) (Html> (hood) Ltitle > ABC Infotech INFOTECH Whitle> body bockgroud-color: aquamarine;} table of border : 2 px solld black; background -color : 14 mg;} captilan (color: xed) to and border: 1px solid black; verthal-aligno topis (/style) (/head) < bedy> (form method 2 post) (table (Coptien) Chi) ( W) REGISTRATION BY FORM (14) LIKE (Caption)

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rame = 13 required > 1+1> (4) Required> home of Contact Number Xtd & tolk input type = humber Ltr / Lto) Gender / Ito) Ltd Linpert type = radio mane=gen value = male > reale Linput type = radio name = gen value = hame 2 ts regulared></tab/> Jemale > Female (tr) (td) flightest avallificantion (/td) (td) (Select name 2 "HQval") Coption Undergraduate (Option) Coption Coradiate Cloption Coption Portgraduate ( option) Wiselest Lital. (tr) (td) Language Known (1td) (td) (input type 2 checkbox vance = to value & english > English > English > (Input type = Checkbox name = to value & hIndi > HIndi (1th) (th) (td) Prefered programming Language (1td) (td) (input type 2 checkbox name 2 to value 2 jana) Java Cimput type 2 checkbox mane 2 to Value 2 C++> C++ Linguit Type = checkbox name = +7 value = Python Python Hol

(the colspon 22 Kingust type = Sumbit value = Submit /> 4th / Hable / (form) 21 body 2/ html) & Create a website that contains there webpeges han namely Index. Litml, page 1. Limbs page 2. Litml. This page stall display a list of 5 Chiverrites in the form of ordered list having Symbols, a, b, c, d, ande. It should also have a hyperlink NEXT to move to the next page. the most page shall display a list of next 5 Universities in the form of ordered list having symbol symbols fig h, i and j. The page shall have two hyperlinks PREVIOUS and NEXT, which does their nexpective tasks. The last page shall display a list of next 5 Universities in the form of ordered list having symbols K, l, m; n and O. the page shall contain two hyperlinks to move to the fourt and the second page respectively. 2) Index time (html) Ctitle > List of . Universitle x / title > (tooly) 2h\$ Lost of Universities: - 2/12>

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