

Q7(a) Awerage at 7 consection unhers 20 z Sem at six numbers + 7th (langestunder) 20 x 7 z Sew of Six juders + The largest mb) let, Sun at six unber = x. y 2 1/10-x > put in ey 0 140-n 2 140-76 20 = (20-x) + x 140 = (20-24)+26. Courter 7,12,19,

a7(0) A: B: C: D (2) 5x: 2x: 4x: 3x 2 Sum 3x0 = 1000/44x 27 B = 1000 +352 - (2) Ant Front ex 0 3x /4x = 1000. - N Z 1000. 4x + 3x 2 1000. 3x = 1000 + 4x. [-n = 1000] = -1000 2 2 (-1) Common Causes of wooter Pollution. Water Pollution: water palluteau 8s the Empurety in water whether 9t 9s instoract of arthfreid. There are many courses of water palluttan Such Cas. altropen ourdes unto the water.

to waste material release by agrate life 3 Pollutante en als. The to presence of our, water become also pallutant because are dissolves in water @ Pallutants from factories our factories referses harmful chemicals desectly ento the water due to poor memognest B) No waste management system to we have no proper management system to wanage muste released by houses, factories etc De loor gutracetracture we have less damps and comal system due to which we connect store fresh water The Pakiston, we have poor technology to glean water. These are the specties the algen, bed besterra etc are the source my waiter pallution.

Domestic wastes: Ento the river, comals is some yed areas. Structure of water molecule: water molecules have two earalant bound and have V shaped bended structure due to presente af pours two paire at lone pour electrons on oxygen maleales. Lone pair of electrons of ordgen
molecules:

These lone pair of electrons
exert force of repulstion of
two covalent bond it water moleculus
which lowers 1- shaped water nateule. Structure of water molecules: 104.45° H

The bound anythe between two covalent to is 95.84 pm Interection of water molecules:

Noter maleures entened with each

other through Hydrogen bonds. Hydrogen

band formed between Hydrogen and

legtly electronegative (0, N, F) stom. R P H P H Covalent bond:

Covalent bond:

Shoring of valence selectrons between two atoms. water hers two covalent per maleurle. Structures volence shall so 9t need two more electrons to follow stoo cetet rule and to ottakn stubblisty whereas, Hydrogen has

get need one more electron to attagn
Stability and follow duplat rule. · Ishardon Qu (A). Compare the goals of cop 26 and 27. Conference of Parties orranges to countral disous trous allmate change which courses flood and heavy rains all over the recent the sound heavy rains all over the rooth the 1st blinding agreements between the country sees In this countries arranged the finding system for climate stability. In this country seed because we every has been focused because we need to decrytouse am pat planet. The co, justes comentroothan is going to be high is our with increases earth temperature. The cantries are decided to properly

the cantries are decided to properly

the phenent kyoto protocoal They delloted

to give fundeg for this project

the give fundeg for this project

the give project. They also wants wo th to implement the process of dean interesting to seduce earth temperature Implications for Pakistan? O Pakistan has planted around
205 billion toels in several 5 years.

D Introduced clean energy projects.

Distroduced hydro electricity

Distroduced bydro electricity

Distroduced Solar energy projects Conclusion: COP 27 is the opening meeting which is very important for developed and developing cantiles to contral disasterous situation into the Pakrytan. Developed contries are the largest contributor at air pollution and about the lamoute change. Optical Fiber:
Optical Fiber:
Works to transmit enformation with
the respect of the prenesple
use by it is total enternal reflection.

Alber is like or long tube Optical which 95 plaste. Pointple: The Process of total Internal reflection is used by it to transmit conformation. No light ray con ecope out of it, Strutule. Entreal angles
In optical fisher we have for which the angle est refractions.

For which the angle est refraction.

The angle est refraction.

Q2 (A) RAM: Random Access andy memory. -> PAM is a nortalodile memory which is useful for the startup of a compressed it is temposary memory. -> Rom is a valatite memory which is permenent and it is the Permenent storage of a computer. 415: Yobal tontong Systems. and soutes where GIS is useful to get information about quything. Internet and network: Network re the connection of two computer which sharing resource or more suternet, apps etc whereus. such our connected device throughout the world. Natural Satelite and artificial stelite: Sortellte are those which are Natural asound the Suplanet naturally revaluing Such as moon.

Antefrebal satellites are thouse which are main worde and revolving wound the planet (Earth). For example: 48 sataillites Byte and Nibble.

Byte & the storage unit. in a computer and 1 Byte = 8 69ts, Q2(C) Vitamines. vitamiques que the essential conferent in our body which also participates in harmand orgalations. Fat Spuble vitamines. Which are soluble in fats. where such as starrine A, D, E, K.

Water Soluble vitamins: Water Soldle vitamines are these which are subste in mater such as B and C. Vitamine A: Source z Fish, meget, Sweet potatos, egg. Defrirency z Night blindedness, no granting and development.

Vitamin B cources : Veget gibles, fourts.
Defluency: No metabalism, No RBe's formation Vitamin C: Caruce: Vegetable, Junes, fraits Defteenry: Severy, less monisty Defferency: No Bone growth, No hormane production
Vitamin E: Vitamine D: Saurie: Crosen regetable, veg etable od, mits etc. Defency: No auti-oxidant, lack af Emmisty. Vitamin K: same: hreen rejetable. Defleury No Blood Notting, weak bones working of kidney: Kidney:

Thursays have part of kidney on the abdomena guilty It is on bean like of the year and have willboard at nephrons to little block and rate important which is gerreted out of body through the process of yearstone.

Structure Momeraly. Ban wacun's capsule

Proximal pistal

tubule pistal parelartery (Ma) rein when Loup of Henry Nephron. Working: through Reval extery min. Nephron: From renel autery et goes touvards the nephrous Nephrong que the bousic furificanal muit of kidney whene filtration accurs and pour out the urtue out of the nephrone through callecting dute part enters and the wreter. revel overtery from where It downtes the throughout the body

In the bloud filltrathen wasteful souts and sessential emponent som be gissorbre and sessential emponent som be gissorbre