JANBAZ KIAN (0B-59). Good for theory portion Work on math portion General Science And Write complete logic and PART#II Section-I steps **Draw diagrams** Enough headings Q#2 Answers a limates climate is an average of precipitation, Temperature and humidity over a long period of time is called climate. Environmeni Sympunpting in which organisme eive called its environment. Climate - Environment: consist of all living :) Consist of factor and non-ling the lille: preipitation, humidity and Tempera Factor gound ture ii) Climate consistitute Environment constitute weather phenomenon, of biotic and abidic factors

Courses of air pollution in Pakistan: i) Over population: One of the major cause of air pollution in Pallistan is vising population. More the population more will be production of pollutani. More area will required for housing led to deforestation. ii) Deforestation, Paulistan have ten than Sr. of land cover with forests, while global standard is 251. of land. Therefore, deforestation is a major cause of Air pollution in Paliston ii) Vehical Emission; unkortinatory, paniston's metropolitan lack efficient public transport which led to exercise use of the vehicles cousing extreme emission do COx, 80x. v) Agriculture Activities the formers in punjab used de technique of burning Crops remains which addy to the Ar pollution 1) Thermal Energy Pallistan produce 60%. of its energy by Thermal.

resources, which is a major ceure A air polution. b) Answer: -Vitaminss These are essential nutrients required for normal functioning of human body. Vitamin is combinention of two words vital and amine means the most important amine Although not all vitaming one amine but the tipi discovered vitamin was an a mine Vitemins: folus Those vitamins which solve in fate lue vitamin, A, D, Eand K. are. called feit solubre vitamin. 2) Water Soluble: Those vitamins which are soluble in water like vitamig Bcomplex and witamin ci are called water soluble uitemin.

Vitamins Role Function in development i) A of eye and brain i) D Required tor Bone development Pertom role in Suin, nerve, delay Aging and development of represencine organs ar) E Role in Blood elotting 24) K Immunity and skin. V) C vi) B-Complex. Role in Digestion, Blood cells development, nerve transmittion, appetite, cell regulation, d) Answers Active Sensors Those sensors who have their own store of light means it dues not depend on other source and can deteil information actively day and

Passive Sensors: Those sensors who dogsn't have their own source of light rather dependend on natival source i.e. sun light and can detect information only when exposed to sunlight. Use of Sensor in 19 TS: GIS consist of Following Components. 1) Hardware 2) Sottwerre 3) Data 4) User. The Date is mainly receive through remute sensing in remote sensing these active and passive sensor play a critical role is collection of date and transmission. The sensors role in remote sensing is illustrated by given diagram.

:2: Remidle Sensing 1 illumination - 95 the only source of illumini of source & them it will be df. sening. panie source have their own light -> 9f the it will be alled active senting Active sensing enable GIS ex IS experts panive want, Bul, in case of sensor they have to wait for fun Answer: cell: etuction

It consists of various organelle pertoming specific tunctions. Units of Human cell: Plasma membrone 391 21 Selectively permissible membrane. Made of protein and lipid Bileyer. It allow only those meilenial which are reputred by cell. ii) Gtoplams The medium in which all orgenelles are suspended are called cytoplamin Function: 1) Site for Certain reaction 2) Hold neutrients and all orgenelles. Golgi Apparentes i Named after its discoverer camillo galgi. It is membraneous she involve in various importanti functions. Functions i) Storge of protein Packing of released proteins.

iii) Modification in protein Spucture Endoplasmik reticulum. It is also membrane ous orgenelle surronding nucleur Types: a) Smooth Endoplasmic Reticulume The type of reticulum which have no ribosomes attached to it is Called smooth endoplaimic reticulum. Functions: > Production of Fats. - Involve in elimination of toxocity. 6) Rough Endoplasmic Reticutum. This A Endoplasmic set Reticulum type have nibosomer attached to its surface. Functions - moduction of protein Ribosomesi cre small orgenelle These consist of two sub-units. It is made up of vRNA and protein.

Human cell have gos ribosomes which means each subunit consist of 40s and 60s submit Functions Production of proteins. VI) Centrioles These are microtubular bodies involve in separation of chromosome during cell division R puctures Each centriale consist of triplet of nige microtubules, which means each of them consist of 27 microtubules. function: - support to cell. - Seperation of chromosomes to sprosite poles of cell vii) Mitochondnias Double membreneous body involve in multiple procenes and also called power house of cell Function: a site for reaction of respiration like; lireb cycle:

vili) lysosomesi Membrane bounded orgenelle which contain in it mainly have hydroly enzymes. Functions & destruction of - enguli , Auto phagy ix) Nucleus: The command and control conterio central of the cert 97 Chromosome and conbul whole Junction of Cell Consists of Neucleo plasm and nucleolus. Functions -> The site for chor - Control of , Transcription, (DNA -> RNA)

SECTION # II 1: a) Answer. Given daler Ano multiplied by 35-3/5 But, Real no way 5/2 Requiredi percentage emore? Solution the no. be x 86, 1. envor 2 Actual no. - wrong no 100 Actual ne 5M _ 3M 3 5 × 100 51 254-91 15 × 200 52 × 200 16 M/ x 100. YOM × SM 61 × 3 5M

x100 conlege error was Results b) Answers yatio chocolate lo icecreamz Given: 5:8 no. of chocolates 230 no. of ice - cream cones=? Rege Solution. The no of ice-cream comes Can be Find through propotion tormula. b. · c.d ON . 00 Nz mo. di 5:8::30:2 ice-cream Ço, cones, Product of means product of extreme

QN Results 80, the no. k re-creem cones were 8 0 Answers Given: one tablet contain 30mg Reps for 240mg tablei NO. Solution: ableti for let lon 20 : 240 UD 2 12 22 8

ts So, 8 tableti 240mg of Results will conterior Medication Given: Average 2 20 Total no. 2 50 Regg Average when two no. 37, 43 orre discorroleel Solution we know that Average - Sum of all no Total no. 20 - Sum Aallno. 50 20×50 2 Rum of all no. 2000 2 Sum of all no Subtract the disconded no. 1000 - (37+43) = Sum of all no 100 - 80 2 Sum of all no

100 2 NOU mas QNOG Answe d Height of wall 2 10m given: adder = Base Reg: ladder 2 ? length Solution Known that 10m As + (Perp Base Hyp 300 Put the value 3 $(x)^{2} = 9 + 10$

Taking root on both side Vn2 2 109 M2 10.44 Answer: given data: length of Dal lare = 4.6mile width 22.2 mile Surface Areaz ? Reg: First, Convert mile into Km Cution: length 2 4.6 x 1.6 2 7.36 Km 80, width 2 2,2 x 1.6 2 3.52 km As we know that Area 2 length a width Area = (7.36) (3.52) Areas 95.9 Km² convert kin into meter now Area 225900metre

Giveni a) Nadius 2 8 cm Height 2 15 cm = 0.08 m = 0.15m Required Volume of cylinder 27 Solution As we known that Volume 2 TY2h. (3,14) (0.08)2 (0.15). 21 4)(1.0064) (0.0225 0.000 4 m3 olume Result So, the Volume of Cylinder will be 0.00045m3