V good for math portion (syed Talka Ahmed) But Insufficient length for theory portion <u>Add more headings</u> Add more headings Draw neat diagrams a) Improventation; remment Climate & environment are closely related concepts, but they refere to different aspects of our curroundings. Climate encomparses the long term patterns of temperature, humidity, wind & precipitation in a particular region. It is determined by factors such as the earths rotation, solar radiation, -f the distribution of land & oceans. 1 : Climate is typically characterized by statist-2 -ical data collected over decades on even 5 protuge of neather patterns in an area On the otherhand the envilonment referrs to the broader subcoundings pre conditions in which living organisms excist. I includes both natural elements like air, water, soil, flelea & fauna as well as numan made structures & system. The environment encompays the physical, chemi-cal, f biological components of the Earth & the interactions among them. It is shaped by natural preacenses such as election volcanic activity & evolution as well as human activities fike untranization industing

Date:____ - trialization & appliculture Causes of Pathistans Ait pollution Air Pollution is a significant onvinemental issue in Palhistan with valuous sources contributing to the degradation of air ghality. Industrial emissions are a majore source of air pollutants, as factories 2 industries release harmful substances such as (sultur Jonide, nithogen onides & politicular matter into the atmosphere. The combustice of fossil fuels in power plants, manufae. -twing facilities & vehichles also preduces significant amounts of pollutants, inclusing carbon monoxide, hydrocarbons & heavy metals --Vehichte emission are another prominent cause of aile pollution in Pathiston paliticularly in when areas where traffic 9 congestion is high the increasing number of vehicles on the troads, coupled with 3 3 inadequate emission control measures f pool fuel quality has lead to eleverted revels of pollutants in the air. Attionally --Prince .

Date:_ Additionally, agricultural activities contribute bullning of air pollution through the +0feetitizon desp residues, uses of chemical Hode Falming live & perficide nacerbailes air pollution Ulbinization energy consumption, waste by incleasing ion activities goneration. construc pollutants into the release which as dust stehms, -3) ail. Natural factory such geog replojical emissions also -5 wildfinds Pathisten. -3) Bolly fion contribute to ai 4 pullition nequires comptie-Addressing aik talget valious strategies that - henrive pollution sources, pleamate dean technologies 2 4 & practices & philohitize the health population well -01--Vitamines & their reole in human body 4 b) 9 Vitamine are essential micronutericute 2 nealth play crucial rele in maintaining various physiological functions 7) Suppose . Although nequined in small human body. in the vital tele 1 reteming are amounts HALLAS metabolism, geowth, development, immune -overall well being. Each vitamoning Lunction

Date:____ has specific function of benchit of any deficiency can also cause health protoleny - Vitamin A1- Essential for vision, immune Function & coll growth Vitamin B1- Includes several types B1, B2, B3, B6, B12) they are impositant For energy metabolism, nerve function & ned Blood cell presduction. 1 Vitamin CI - Acts as an antionidant f supports immune function f aids in collagen synthesis 0 Vitamen 1. Chucial fail bone nealth function & calcium absoluption immune -Vitamin EI- Functions as an antionidant 9 cells Floor damage pleote tir 0 immune function. suppositing 1/21- Necesserie for blood 0 Vitamin clotting & bone metabolism condusion vitaments abre essential In 9 nathiants that divense feele in the human body 9 Form supporting quont l'écrétopment to maintainit. realth & preventine, disease. A balanced in a variety of Fluits, vegela fiet rich Prince .

Date: bles, whele geains & lean pleations is ersential fet obtaining an adequate deficiency or increases nutrient needs but it should be prinder the juidance of a healthcare prestorsional 117 -~ c) Comparison of COP-27 & COP-28 Goals:--> -COP-27 & COP-28 are international confere-- ences under the United National content-- ences under the United Nations Flomenraula specific goals of each COP may vary depending on the evolutions global content I priorities, they generatly aim to facilitate international cooperation & concentrated action to mitigete greenhouse gas emission adapt to the impact of climate change & priornote sustainable development. COP-27 would build upon the previous objectives of the Pairis Agreements. 5 3 0 3 · Enhancing commitments to reduce efforts to adjust the imparts of , Mobilizing Financial Mesonaces for almate action, politicularly to support developing notions

Date:_ · Fosteling international cooperation patendiships to accelerate dimen 1 17 dimate action 1 Advancing discussions on Key issues 1 such as carbon mankets fromsperiency \$ & climate ۲ Finance . COP-28 would aim to fuerther: incareasc these pouls U · Increasing Amption: Building upon the (55outcomes () OF OP-27, Fuether increasing ambition in climate action to limit 0 global walming to well below 0 dealic elsius. & stliving felt 15 deghee 6 Celsin Implementing Glasgow, climate Peits. Philolutizing the implementation o adjection made at COP-27, including • negotiations on hey issues such as • calibon moulels, Hangahency & dimate -Hinance 9 Enhancing Adaption & Resiliance 0 the need to enhance Zing Emphasi & Mesiliance effecte (10. adaptation particularly in vulnerable regions ommunifics, in response to the Prince mercaring impacts of climate change

Date:___ · Pleomoting climate Justice & Equity, Addressi, the needs & concours of malignalized 2 vulnerable greenps. Fostering international cooperation 4 solidability in dimate action & preamoting dimate justice frequity plunciples. () Active & Parrive senselus are twoprimary types of remote serving devices west to gerther date about earth surface & atmospheric. Each -3) 3 3 type of sensele operates differently 0 I has dintict application in valuous Fields including Geographic InFermation System (GIS). 3 3 3 9 D Active Sensch (a) They emit data form electromagnetic 3 rasiation of meanines the reflected 3 che mitted hapition to gether) information on taget B Examples of use of such senselvis LiDAR (light petection and Ranging) I sonai (For deep werter & under marter application) (c) They generate own energy & thus are independent of enternal light sometice

Date: this enoubles them to operate all der 1 & night 17 They can pleavide high-hesolation. Later with precise distance elevation 1)r 1 measurements; making them suitable for ()r terrain mapping, vegetable analysis & infrastructure monitoring -6 2 Parsive sensely JF They detect I necous atural light without emitting any energy Themselves They need onely source like sun they mal reidiation 6 Particle senschis can be seen in canceras, multispectral & hyper spectral imagens & inclosed sensors. They can capture inflated, they may L'isible light atoning for Monacterization of differencent prepenties & reatures for the Sull Fales preopertici (1) TIEG can be uled in envitemental 8 manifoling, agriculture, Fourstary of herben planning Prince

Date:_ GIS. Wes both active & Parsive Sensclus. Active 1-D LIDARI- is entensively used for highresolution elevation mapping & creative Digital Elevation models (DEMG) & generating 3D gravitle inspresentations 2) Radal is used to monited land covers & detection of substace detection Dire tes landslide. 3 Sonall is utilized in hydroguaphic surveys to map underwater terrain cubmatines ou objects under-water local nonigenton & manifime Passive,-Satelita & actual imageny and captured by parsive surphs that provide spatial tester in GIS systeme. spatial (> Thermal sensors pressure the temperature of Earth's surface enorthing the detections of heart ormanifics mapping of when heat islands, finds f encugy assessment of buildings. Prince

Date:_ (DSI a) Cyclones,all fermes when atmosphe. 1 typically " itions auc five conduc opical hegions during wali (I) (golones, Hubbicands yphoons 0 sensing hepion powerfi Or anc all nco stering form that coin Notcers Wayn Se of IF Lovide nece JE pholion R sequdout 100 D.S warm maist 0 hises fleom m Can i4 CACON 10IN new below. Swowsin Π sher -fic nher whe hi Icsulfing VO 14 9 Conve Colic II offe it P coul she Party eet 2651 cus) 0 Causes if sperel maark upwan ila motion inte ics. as waln Joann CIM en abr Stehn with low 9 pucksup Known the as en *fehnation* ìC the cyclone C Prince .

Date:_____ 5) Ionic & Covalent bond differences - Ionic bonds form between atoms with significantly different electrong-ativics presulting in the thansfer of one electron from one atom to question bonts age fermed when Conclant atom sharks electrons to achieve - Jonic bond possiles in the februation of ions, with one atom losing electron configuration of becomers 0 positively charged & another gaining elections to become nega chory CS bonts involve the shaling 29 (av Nent of election pail between atoms a sterble molecular Aunture creating - I GNIC Londs tend to ferm between metals & nonmetals, while covalent bonk form blu ron-motals. typically Prince

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Date:_ Tides 1-2 TIDES and the sisce & fall of seg of the Moon of to g levels survitatio.val ersion ent Syn as well as the leter ion of ShC earth 0 0 IEDI 3 Emitting Dipde (LED) is a semi-Ĵ Snite light source that emits light 0 electric current parses theorig2 gn cn 3 or nighty margin ficial 3 Jurable nalics long legt; 2 com lig handesau Haditional bs. valions applice wed small plance, tocaffic si s & atc. As the concurr deconatio len consume life spans onceren henve Nigr LED ontribut chto may-fl Ar all 01 help the envitement saviv cleg y imperce foot plein alpon Meducing bu hier ÷ Prince

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Date:___ Height of Ladder 6666 2 (h) = 10 m the labour base floor height Distance of of the hanse arat is i 2 py tha joines theelen -) 1200 666 2 3 0 100+ 109 react 109 U eight of ladder is 10.44m hus 1.0 1. . . -04) 3 1 1 Prince 5

Date: . l Percentage event 01) F. iF 3/5 is multipliced instead of 5/2 Fermula () 1 Percentage event = True value - Apparon value Juie Value iF5/2 is Hure & 3/5 is Applean 5/2-315 ×100 x too ... l 1. . . • • Sec. 6/15 -XICC 16/15 ×100 48 XICO XIOS Perculege 647 Z Prince .

3 Date:_ 6 6 6 Number of Ice aream Cones 1b) Routio of choicelante = 5:8 1.5-3 011 3 Number of chocolate = 30 3 Tet is be the number of total cones Ĵ 3 Number of chocalate Э C Totel number of com 3 : a way made 3 30 3 5/8 $\{\chi\}$ 3) 3 5N=30×8 X = 8×36) Had si 2 a ; - ; UP -Therefie There are 48 ice deam) Ì cones : Mindanur: profession 1111 -1-LS FORD? LINDO 1.52.5 • • • the form side and 1401 Control Mark Prince

8 Date:__ 1 Mumber of fablets c)13 terple conterim (1) Mile Smith necos 240 Cin Un let n be the number of fables) nected 9 total mas = no of tendes & Mesication n per tablet 611 $240 = 80 \times h$ 00 = 240-<u>____</u> n=8 Thus Mas necils 8 tablets Avg of Benoing number Avg &F 50 numbers is 20 numbers (37& 43) are discourded Sum of genaing number = Total sum of 50 nunday - (37+43)X2 999 = 50×20-80 = 1000-80 Sum of remaining humbers =920 Prince _____

Omle: lem There Fore 48 50-DI = 920 rambel Ava Sur <u> 2</u> cf-ビ - number **E** ct N V 19. -= 19.17nemoin Thus + 0 Prince