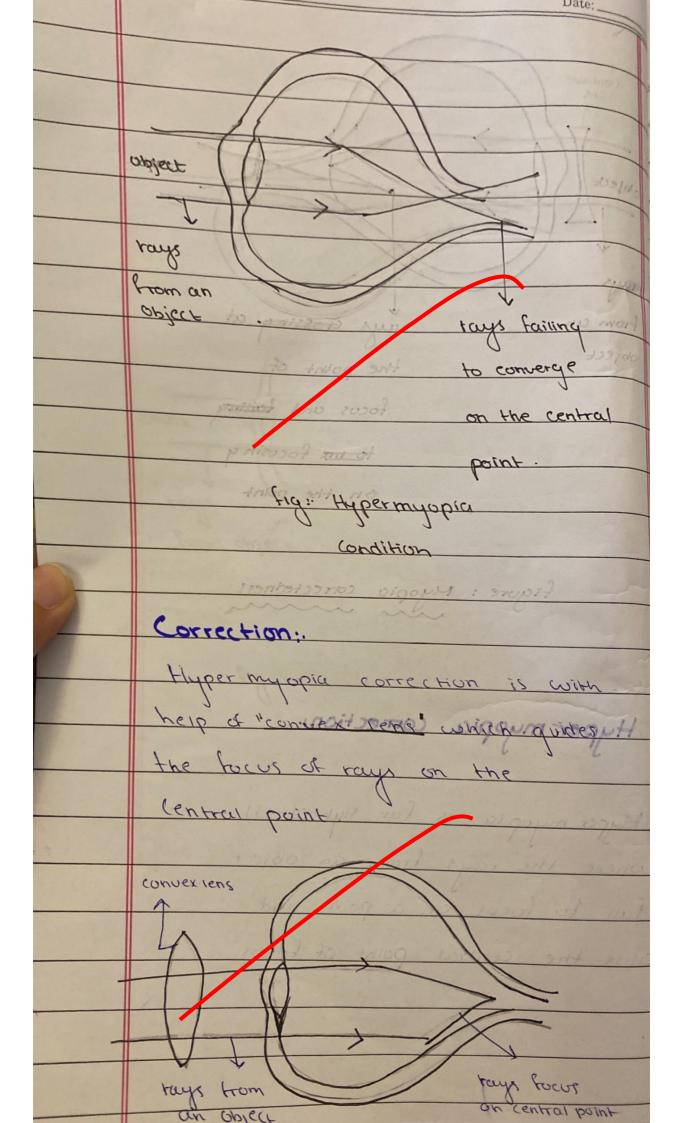


Date: (i) Myopia correction, 7999 Myopia is for sightedness Concave which len visibre py for objects are not clearly object individual by an STR JAUT OF AN EYE rauge from an object object ray rays farming from object Short from focus point condition fig Myopia (:1) Correction correction is with help of "concerse lenses" which Kerp quides the rays of an object 0 to reach the central focalis point

Day:. Date: _ Concaur lens object rays From un at object point of focus and focusing on the point figure : Myopia correctedness · NOi+ 23770 (ii) Hypermyopia correction. Hyper myopiq is far signtedness object trem an where the rays fail to tocos on a point and cross the central point of focus



-:61 PART (B) :. (ii) Aneleology DIFFERENT UNITS IN HUMAN, LEUS: 9 Vindengabor? Vin Mitotic spindle Roang Leen Cytoskeleron 14 sosomes Intertubular Filamenty + NUCLEOLUS + NUCLEUS (0) 0000 0779 Smouth & Mitochondric endoplasmis reticolom (SER) ribusomes Rough endo plasmig attached (RER) FETICULUM (RER) Cell membrane cytopiasm. Inoch Endoplasmic Reficul 10 fig . Cell Structure : 1923 of Human FUNCTIONS (i) NUCLEUR Nucleus is the main controlling will body of the cell

(ii) Nucleolus: Nucleoius contains the genetical material, DNA and RNA UT THE THERE IN (iii) Endoplasmic Reticulum: MAMON There are two types of endoprasmic veticulum (a) Rough Endoplasmic Reticulum (RER); RER has ribosomes attached and is involved in protein Synthesis. (6) Smooth Endoplemic Reticulum (SER): Studente 119) 4 007 1.0mut 70 SER is mouved in synthesis : inortomoof lipids. NUC100.51 (iv) Mitochondria, Mitochondria is the power

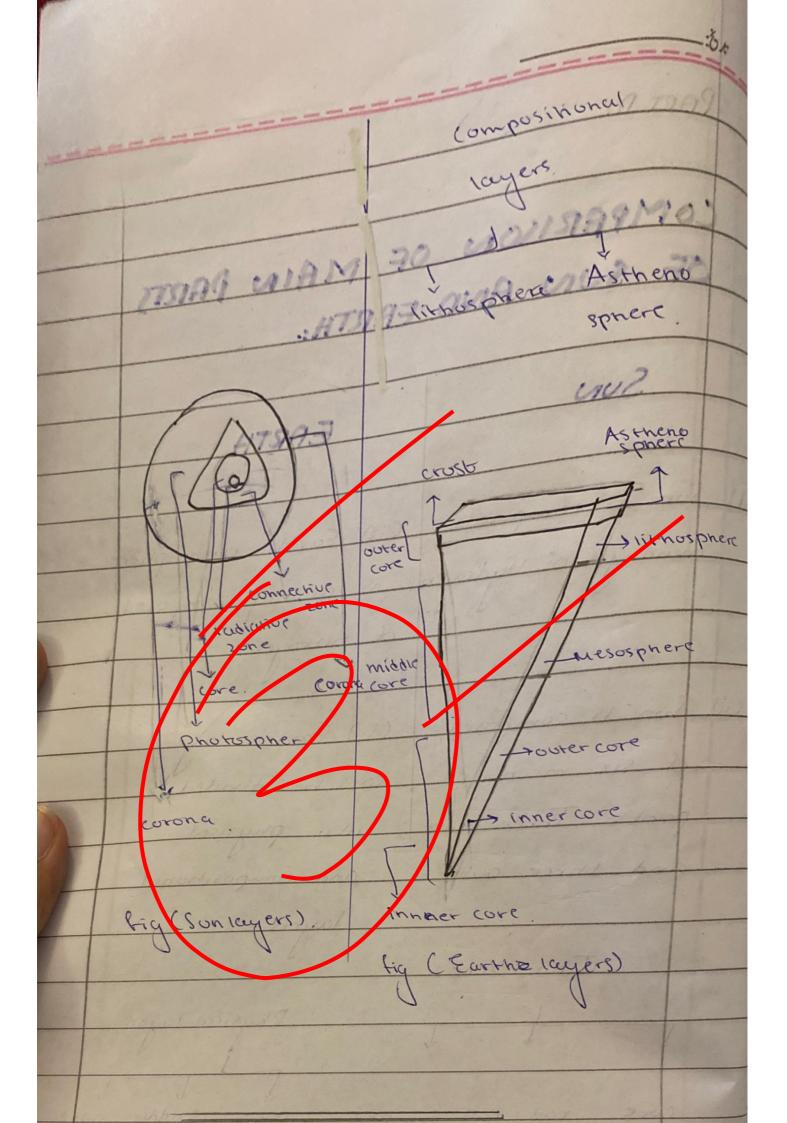
house of cell in solved there is (2) Adeno Triphosphate (ATP) production (v) horgi apparatus. It is involved in packsmer of old (12) material intergolgi bodies and transportation: (vi) Lysosomes: Lysosomes secrete specific enzymes the enquifing 7399 and lyns e (digestion) of certain centur products 100 (vii) Myofiber: hublue litotic N Spindle (wiii) (ytoskeleton) Involved in mitotic spindle (ix) Intertubular fiber. 20 23947 Hold the organalles together (i) Spiral galaxy:

(x) Cell membrane: Entrance and expecific molecules inside the cell. :201 070990 iplo (xi) (ytopiaim: Conduction of various chemical reactions occur # this site :13ma2011 PART (C). GALAXIES Cravaxies are a combainertion of dose particles, planets and Stars are all held together with help of gravitational and force TYPES OF GALAXIES + +++ (i) Spiral galaxy: Whirlpool galaxy

(ii) Elliptical galaxy: Eq.: Andromeda (iii) Barred spiral galaxy Eq: Milky war (iv) Irrequiar galaxy: Eq. large (Small Magellanic Cloud GALAXIES ARE MOUINS OR AT REST, (nalaxies are moving" and not Static Justification of moving galaxies: haraxies are moving excording to Big Bany Theory inverse Expanding at a constant rate since its formation. (i) Starting point of singularity:

(1) Expansion of participational 1007191) formation of quarkes and sub-atom particles 1.Drig 2 CACIFICAS. 277108 (iii) constant rate of expansi LELEGATOR Gal · wxw XV her de distance No veroi SIA ARD Sa me 1. V = Hod (Hubbles constant) of mouth. 1 ACTORIES: Hod. 8 + continuousi expandin • • point of Singularing moving particle

-3x PART D: COMPARISON OF MAIN PARTS OF SUN AND EARTH .. EARTH SUN (1) Sun is composed (ii) Earth's sermospher drogen is mainly composed mainly of hitroge (ii) Sun is composed (ii) Earth's larer can be divided of six main parts Three inner into physical and compositional and three outer ayers Innerzone Physical lager 1 mer Middle outer radiative connective zone 20nc, 20nc CORE Lone 20ne Compositional layers Outerzone T T Inner outer Mesus core core phere Chromo photo corona. Sohere inhere



QUESTION NU:DE 5 PART(A): CYLLONE FORMULATION .. lyclone , consists of a "a whirtwhind of fast moving winds on the surface of sea water" Formulation of cyclone consists of following steps: of warm air from the (i) Rise surface of sea water (ii) Upsourd incoment of the air and subsequent cooling of particles Creation not usus of responsive the base due to woward movement (iii) of air particles.

----: Or (iv) Occupation of the leftsuer space ext the lower pressure area by the new particles of rising TAU air particles .: MOITA IUM 80 10/14 (v) Cyclone consists of an central portion with low atmospheric pressure and an outer portion known as wall which is the most dangerous portion > eye wall outer J Porhon. Scentral portion eye stising warmair. , low pressure created. warm sea water surface figure: Formation of cyclone

:6.5 PARTUB) (193) AUDA DUNOS DIFFRENTIATE BETWEEN TONIC AND COURLENT BOND: TONIC COURLENT BOND BOND Tonic bond is Coverent bond formed formed between between two metal and hon non metal atoms metal atom Boiling and melting Boiling point and melting point is point is low 1709 high RAYS DRES OF GAMMY State of elements State of elements with covalent bond with ionic bund at room temperature at room temperature !! is liquid is solid

+ ! J: # ---IONIC BOND COURLENT BOND high Flammability is JUAA STAC ample imple : (1110) Nacl H2O AUD. 1001 11008 guros 0 H HRY NO non bad hon transferred electron by tor atom Na PARTICE USES OF GAMMA RAYS, XRAYS, AND RADIO WAVES .. (i) GAMMA RAYS! Gamma ralifs are short wavelength tays of electro magnetic radiations Spectrum

There uses are , -:05 (i) Cancer therapy (ii) Surgical procedures (iii) Stone cuttin (iv) Industrial user X-rays: OTTOR are short aba set chat 20219 hation electroma e Hr. ra are as follows. Uses for predical pumpise daignosis Radiation therap Ci artifacts Detection 1) Rudiowaves: have the longest Radiowaves wavelength Used for following porposes

(i) General Porthoning System (GPS) (ii) Mohrie coverage (iii) Radio show transmission (iv) weather tore cashing : yevr-x PART(D): TIDES PHENOMENAN Tides are produced due to gravitational put of the moon peir rise and full coordinates fith moon cycle 12.0.00 -Tides are the rise and failed build the surface water of sea. Their production & dependent on the following factors (i) Gravitational pull of moon.

(ii) Rotation of Earth around its axis LIGHT EMITTING DIODE PEENOMENA: Light Emitting Divde (IED) 15 cm semiconductor with p and h juncher which is involved in emmission of light and used in various technological commodities Process of emission of light by LED : figure: LED PA circuit. (i) Bandwidth present between p and n junction (ii) Pjonchion containing abondance of electrons (iii) n junction containing abundance (A) TRAS &- holes (iv) Stimulus drives electrons towards

-: 6.10 the filling of holes and ere emit tight 2 mound 59 of beindista 3 ron bandwidth 000 000 but Process of toxisiston of light .: OFJ ud figure: LED PA circuit. SECTION-I QUESTION NU.07 PART (A):

-: 3.5 Percentage error = true value -Measured value, × 100% True value 00 × 00 16 ×3 XI 15 16×4 PART (B): Paris of chocolate to icecreum in a box is 5:8 Let x common multiple. Number of icre cream cones 8x and chociotes 8x

:01 35 No. OF chockates is 30 5x = 30 X = G iones 8×6 No. of 48 No of comes in Part (c): Tablet contains medication = 30 m No. of tublets for 240 mg +ablex ?? medication = 1 30 mg F tablet. = 1 13 m 1 x240 tublet 240 12 30 = 8 tablets .: Hence 8 tablets to Ms Smith. for medication

PARION Average of 50 numbers = 25 Sum of TO NU. = 20x50= 1000 42 Sum of discord = 80 no. = 1009-80 = 920 Remaining no. =48. Total remaining = 920/48 116 Average of remaining = 19.17 QUESTION NO:08 101TRAY PART :(A) IQ (Interrigence Quotient) = Mentul Chronological age.

Factors affecting 10. Environmental Cognissue development Bereditary factors Education Parenting Part (b) ... No of traingles = 14 Part (c): Probability = no of imes possible Tor comes QUESTION IS PART(D): (A): TAA9