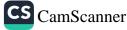
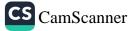
6SA - Mock - f 1 Date: 19/12/24 PartI Section-22 Livids 2 Lipids are essential component of the Lody composed of fatty acid, and trigly avide. They also known as Fate. It exists in various are tood sources such is call vegetable oil mille lutter. and Types of Lipids are majorly divided into saturated Livids and unsaturated fats. Saturated fats are mainly tound in product, little butter and que solid at room temperature whereas, unsaturated Fats are present in products like vegetable ail and are liquid at your temperature. tunctions of Lipids Lipids have various functions. First, they keep the body insulated and warm. Second, they are shock absorbers of the body. Fourth, they are of energy (s. I keal) wind). Fitth, they Source 1 form the manuberane of cells which acts /\_ as seni-permeable boundry for cellular activities. URBANE PAPER PRODUCT



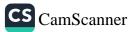
Date: Energy conservation can be done through various techniques: Houses and office buildings ran be insulated to keep it warm during summer, and ald during winters. Hence, conserving the energy. The wide we of an renormation enorm of sa renewable energy sames like solar energy, wind energy, tidal every can be stored. In through greenhouse vind energy, much we energy through first effect where the reflected every from not escape, heering the space warm. Sun • the sheet does attain heart 10 escare through passes 45 · reflected back . The heat hadration verlects back and increase of temperature are various sustainable uses of energy as pecially in the form of renewable energy. Since the non-renewable Sources are scarce, renewable energy consistently provides with energy to meet the energy needs. For example, the solar energy constantly provide energy which is stored and converted to electrical every. Hybrid Vehicles are quother way of its sustainishity as the battery conserves energy reducing the answering the during the answering the phicy of uneccessory **URBANE PAPER PRODUCT** 



Date:\_ C) Hydrogen bonds Hydrogen bonding is a form of bondin the D include Hydrogen elements in two. Lets the example of Water (H20). Although Hydrogen bonds are chanically citicited bonding, the single tydrogen element has a chemical bonding with Hydrogen element of another compound as showy hque. in the This is one of the reasons of . H20 unlerules bonded together unless a certain amount of pressure is existed upon them, breakage ccusing The chemical property & Hydrogens requiring electron draw XO one to each other, forming Hydrogenb (4) Hydrogen 15 inemically bonting rouched with Oxygen malecule, but the chemical attraction exists d Brain entral Brain Vervous Stem yste Spinal Cord Peripheral Spines House Sys. URBANE PAPER PRODUCT



Date:\_ system is the intelligence system of the body Nervous that recieves, analyzers and responds stephals in the . It conductes and command dated with both Nbod voluntary and involuntary responses. The Central Nervous system includes the brain, brain stem and Medully is reconsible for money, a thinking (orlex. It process, fight and flight survival instructs, etc. In on voluntary muscular additions, if commands hady reaction especially in musculasticletal region. Turolantary Vesponse generates in lever part of central Nervous system that condenate activities such as head rate beat contraction. Peripheral Nervous sufference variables of spind cond It acts as a transit, responsible to transmitting information to the Drain and recience electric signal to Soly voluntary or I involuntary responses. Qz. (OVONG) a) CHOMOSph Photosphe un Core (pre of the Sur The cove of the Sun is its hottest region with temperature in million (entigrade. The gravity exists from the your T. exists from this region. It is so strong that URBANE PAPER PRODUCT



Date:\_\_\_\_ sun from expanding after it prevents velecuse. The main elements ave Hydroge energy and Helium (8.1.). Through 1921. Propers Fusting, the Hydrogen elements Hellum, releasing massive everyy. into Chromsphere the upper layer c This 10 Suy with temperature l'sport Sun spots 600 at this place where the exist tempo lower. The every are relatively as head and light from Corona. They is the chown shaped structure of the say. In the process, solar winds are released which are capable of the almosphere of planets like testroying mercury. However, Farthis magnetic region earth how selar winds and forms protects Havora in the process. When the hydrogen will be exampled, the sun will come fuse Helium together. Two would result in massive expansion of sun as the Force exected and and gets greater than quarity The happens The sun becauses of as star. Eying b) Isynami Isunami occurs when the huge waves how flood enters the day level, causing Sea in the region. This not only result in loss URBANE PAPER PRODUCT



Date life but derivaction of inflavoracture diseases, de lass Clonow and environmental damage. How 15 if generated Isurani is mainly generated as a result of earthquake in the Oceanic Cruck of Lithosphere The every veleased in the process is transmitted into water. The deep oceanic currect formy that gain massive speed. The every and how the aureal produces of huge tid waves. If These was curved, nit the land with massive speed, (ausing huge volumes of water entering the dry land current wearing destructions. ard Kerent Tsuramis Bangladesh ,2024 Spain 2024 Environmental Pollution Environmental Pollution is the presence of toxic (uneccess substances in the environment constituting of land, water and air land and Water pollution could include the presence of salt substances in solid liquid torms such as domestic or factory waster, 65 organic waste, plastic wastes etc. Air pollution include toxic pullutants in atmosphere that is detervent to the ecosystem. This many include large URBANE PAPER PRODUCT



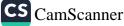
Date: particles as well such as dust particles. Harmful gares such as excess lead is poisonous in excessive. Large amount of Sulphan disrich way cause acid rain. Chemicos title (FC depletes Ozone. Harmful effects of pollution Pollution, 14 humans, a causes serious health issues. of Carbondioxide or Carbon moxide could vesult Excess in complication involving lung diseases. Pollutands like smog, additionally, affects the eyes and throat. Diseases like Choleus and Dtartypen Diervhen prevails from diving drinking water. Land pullution increases intestations and rodents in Metro-cities Like New York. As manhioned before, Sufferdioxide acid rain, hand to plants and war causes deterioration to marticles. For example, Tay Ptahad is tohow due to deid rain as Sulpheric Loosing its cuid produce oxidises marbles. (us it Mercura 20 Recycling management should be introduced. Bins with recycleable wastes should be classified encondingly. People should be educated about their responsi siletics in disposing recycleable waster. International campaigns like Parts Agreement and dimate conferences like the recent (01229 must provide latest break throughs to to avaid airpo minimise an pollution. Unfortunedely, the URBANE PAPER PRODUCT



CC Date: \$300 Sillion he contribut Globed North agreed to four hyuns tu He caux. It must be at least effective implementational action against climate pollutions. In whenhich, Local gout should be empower, pourinurs. In commen, course unaller sales. Public-Print partnership should be encourased. For example Quett waste namagement has been handled over to Safa a public-private waste management agruisation. Wireley Communication 9) Wiveless Communication is a major break through Communication verwork, involving transter but one geographical Toution to formation another without a wired medium. It could travel within a city, within a region Between countries throughbut the globe. The medium involves microwaves and radiowares signeds. For α example, a remote transmits certain hequency interowares that command TV to switch a channel or increase volume. These signals can travel as fast as the speed of light. Satellite Satellite Signals Signeds Sende Reciever lower lower URBANE PAPER PRODUCT



Date:\_ The signals are transmitted as Iways to the satellite in a specified bequeues. The catellite interpets the data and send it to the tangetted locan certain events, it coordinates with other satelli to pin the location of sender as well as reciever. For example, GPS system involves con Since to between various satellites to pin the exact location commanded. [Section-II the three digits be X, Y, Z Q6let olet 'n' be unt digit Sum of digits · let 'y' be lot digit · Let (2) be both digit Nty+2=15-(2) Sum of 10th and unt digit  $\lambda t y = 12$ of Unit digit how both digit Difference Y-N22-(3) Ŧi Subsitute equation (1) into (2) 12+2=15 22 15-12 2=3 URBANE PAPER PRODUCT



Date: Elimination method to find y from equation (1) an 202 ->{1 Aty = 12 5(2)- × 1y = 2 in equation (1) to hud Substituting 'y 247-N= 12-7 N= 5 Threehove, 144 142 Should be b) let small pizza be's' Let medium pizza be 'm' a lange pizza be (2) let 7 If here is one slice perperoson, the total dies will be 18. Total slices = 18 Total weight = 18 x40 Number of sheer in smeller pizza 2 x 18 = 4 . 4 shices 14 smaller pi URBANE PAPER PRODUCT



Date: #Assuming the size of slice is same to all the pizzas (08/ 1stice = 520 => Total price of smeller pil 2 cy total slices of smaller p ren Constitu 2 80 Rs/-(ost = Total slices of all piezar & at per slice Total = 18x80 = Rs. 1440 Therefore the total cost of pizzas are Ro 1442 while its total weight is 720g. Djameter = 6 cm C)Radius = Diamiter 2 = 3 cm =6 Civeumfarner of Civele = 27v = 2 × 22 × 3 · Thacking, the Eincumference of Civile is 18:85 cm and Avea of civile is =18.85 cm 28.28 cm. Area of Civile = Tr2  $=\frac{22}{2} \times 3x^{3}$ = 28.28 m URBANE PAPER PRODUCT



Date:\_ 644 d) i) Posibion : 3rd yt 54 1 2nd 178 264 90 Step1: 13 46 24 Step 2 176 44 22 19 (difference) -x2 X ×2 72 Step 3 (STWFipli calion Sevies differ ences From the above Series, we took the the consecutive yumbers in Step 2. £ In Step 2, we realised that the pattern form has consecutive multiplication of 2 in the difference identified in Step 2. of each Therefore, the difference of 4th and 5th (88) is a to attain the difference of multiplied by 2 eth and 6th number (88×2=176 of 176 CH he difference is added to the original number in Steps order to attain original 6th number. C (178+176 = 26+) Therefore the 6th number is 264 ΊÌ 2nd 6th Sng Position : St 534 414 Step(1) 30 M Dr. Des le preus Step (2) Difference 1 3 2 9 URBANE PAPER PRODUCT



Date: From Ster 2, we identified the pattern of The numbers. The difference of the numbers were odd consequire numbers in ascending order. Therefore the difference in 5th and 6th mumber will be the according odd number noxt in the consecutive vange of 1, 3, 5, 7 i.e. 9. Since the odd numbers are the difference, between consecutive number, 9 is added to the site m the serves in order to attain the mussing number. Hence the 6th number 15 (2119) 30. 28let leally be (11) 3 : Width = 21 x 60 .1. = 0.61 Therefore the dimensions of the room and IS feet length = 15 ftlong and Treet wide. mic N= 15 Width= 0 6 x 15 = 63,153 =9ft Joz 1 N P) uff 50 E < -Wader <-Station 2011 Start 484 let the distance from 'water station to starting point be (x) URBANE PAPER PRODUCT

CS CamScanner

Date: Using Pythegours Theorem b Hypothnese - Base +Hejer H3-B2+H2 Bare = 48 Height=20 Hypothnese = X  $\chi^2 = 48^2 \pm 20$ = 23.69 + 400 213=2704 Since 2704 is closed to the square of 50 and Y is the square of 3, the exact square root of 2764 is 52 • ` =152 σ. Ţ N= 52 herefore the total distance him water station to the stanking yoing is Szteet. bach C Average = Total wants Sucley , Total 52.15 = 7 Total marks 40 20860 = Total mark (our chip the aver by decluci-49 and 85 addies URBANE PAPER PRODUCT



Date:
Tutal Connect = 2086-49+85 Marks
Total marks = 1915/ 2122
Avenuje (mew) = 2722 /= 53.05
20
d) Rubability - The posable item (chicken yizza) Totable items
$\frac{25}{25+37+3} = 24$
13
Pro Lasility = 5 (chicken pizza) 13
Explain complex concepts in
simple terms. Make heading and
subheading in the answer
Include diagrams and flowcharts
for competitive edge.
Discuss practical applications of
scientific concepts.
Show all steps and working for
calculations.
Use graphs in maths where it is
necessary
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