## Consider the following to improve

your work	DATE://20
	PART-U
- Include	more diagrams and ns Section -1
illustration	IS SECTION-J
- Use clea	ar and concise language
- Label di	agrams and graphs
clearly	Ans LIPIDS
- Provide	detailedexplanations
and exan	ples Lipids are a
- Double-	check calculations for organic
accuracy	compounds which are insoluble in water but soluble in
- Organiz	eanswers with headings or solvents.
	eadings are an essential part
	of cell stoucture and
Graphs i	maths are appréciated components
	of cell membrane, and
	Signating molecules.
	Major Types of Lipids:
	i) Triglycerides (fats and oils):
	It is a such type of lipid
	which is composed of one
	glycerol molecule bonded to
	Three fatty acid chains.
	Function:
<u>5</u> 2.	[1 provides long-term-
	energy storage and also helps



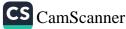
DATE: / /20 body temperature. It cushion for vital maintain -10 act as a organs. 1i) Phospholipids: composed 14 ĩs 01 9 glycerol backbone two fatty acids phosphate 9 group. and Function Form the lipid bilayer of cell membranes, Droviding Structure) integrity and controlling - the movement of the substance -m of the Out body and 11) Steroids : of Made up Four interconnected functional corbon rigs with various roupe helps in harmonal function. 14 iv) Waxes: up of long-chain faity Made and acohal's acids provides protection to plant and animal 14 cell and also play barries role. v) Glycolipids: attached to carbolupdrate Lipids groups. It recognize cell-cell interaction and membrane stability



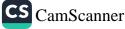
DATE: / /20 **(b)** Introduction: conservation is the Energy using less energy or using it more process 01 ้นรากๆ consumption 07 efficiently Measures for Energy Conserve and sustainable Use; 1) Promote Energy Efficiency: energy efficient use red Use reduce applications. Also and cooling ener re ents, 11) Adopt Renewable Energy Sources: solar 10 ener Transition hydro bow an wind enero reduce dependence -10 fuels. M) Encourage Public Transport : buses trains Promote ano ち be use bicycles reduce individu -10 vehicle usage. Iv) Implement Smart Technology, By shifting from non-venensble



DATE: / /20 technology 70 energy to use oden the meet puive iv) Reduce Energy waste: Reduce waste energy by lights 6ff -Jurn an when not v) Educate and Create Awareness Conduct public compaigns 10 ener in Cons 501 (C) Introduction : Hydrogen bond is a bernd chemical Weak 0 towny. thei between are they occurs covelentli electronepa-tivity attached in 5 attraction Ex2 - H-C1 . Key Chavacteristics Bend: between forms ogen 1) 9t



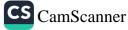
DATE: / /20 and highly electronegative atom such as Oxygen, Nitrogen. etc. 2) The electronegatively atom pulls electrons away from hydrogen, 3 st a partial positive change which attracts the negative another electronpotive 3) It is weak - than covere bond Ex: H20--- H1 6 --... (H (H) fluovide : Hydrogen (F H H



DATE: \_\_\_\_\_ (4) Introduction: Nervous sustem is is a network sustem that 0 and artice that nerve from olso the carry Drain from orain messages organ organ atherthink tour When brain body. - the merries CSTY message from organ brain and brain res and response t. there are three main parts of nervous system. 1) Central Nervous System: It contains brain which controls centre for thoughts, envotions, memory and sensory processing It contain cerebrum, cerebellum, and & midbrain + It also contains spiral cond. i) Peripheral Nervous System: It contains stomach nervous System which controls voluntary movements. It also have autonombours



1 100 DATE: / /20 ----system which regulates nervous involuntory actors. QNO' 3 Ans A) Introduction: Sun the source 19 which radiates energy 0 energy 25 Knowns It heat be the high -10 hes energ SUN



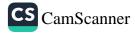
DATE: / /20 (c) Introduction: 91 is the existence substances -/he in harmful environment, causion adverse ecosystems, human effects on The planet as a Keelth and whole. 9t has following Der: 1) Ant Pollution 5) Water pollution 11) Sort Pollution in) Noise Pollution Light Pollution. V) Harnful Effecils Environmental Pollution: effects 91 humm health on worsens climate change. 9 Z) J: water. pollutes 3) Īł gases increase hamful 7) the atmospher in effect agricultural 5) 9t can on product to Carb it. Measures 1) It can be mitigated by anonreners. 0) to Transition from non-venerable energy to energy. reneusble public vehicles. 3) Less use



DATE: / /20 SECTION-1 -QN0:06 Ans (a) Data Sum of 3-digit number is 15. Sum of 10th and unit digit is 12. The difference of the and digit flow lot digit = 2 is the three-digit number? What Sol: Unil Loth 100th let: x + y + z = 1s - (i). x + y = 12 - (ii) $y-\eta = \overline{\sigma}$  (iii). add  $e_{2}: (i) and (ii)$ 10 = 2. 24-14. 14 3 (iv y =Now eq.i put iv in ( ii) ep 13  $N + \eta$ -·: y= = 12. 12-7 V 5-M Now put value of x and y into ey ()



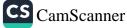
DATE: / /20 x + y + z = 15: N=5; Y=7 5+7+2 =15 Z+12=15. Z = 15 - 12. Z=3. Therefore the 3-digit number .: Ans. is 73 (b



DATE: /\_/20\_\_\_ (C) Data Diameter of circle = 6 cm Circumference and area = ? Sol .. Circumference of Circle = २७) : Y = Yadius.  $\gamma = d$ 3 6 2 => 3. Y=  $\gamma = 3$ \$ Circumference = 2x1. : x=3.14 = a(3.16)(3)= 6 (3.14)Circumference 18.84 cm Area of Circle =  $\pi \gamma^2$ · T=3-14  $\gamma = 3$  $Circle = 3.14 (3)^{2}$ Area of = 3.14(9)Area of Circle. = 28.26 Therefore, Circumfevence of circle is 18.84cm and its area is 28.26cm Ans



DATE: /\_/20\_\_\_\_ (d) i) 13, 24, 46, 90, 178, ----Sol . 13 34=)B24-13=11 46 => 46 - 24 = 22 90 => 90-46=44 178=> 178-90= 88  $354 \implies 354 - 178 = 176$ : The Each term's' difference is nutiply by 2. therefor in missing number 354 is Ans 5,6,9,14,21,ii) 501 ... 5  $6 \Longrightarrow 6 - 5 = 1$ 7 - 6 = 39 = 4 = > 14 - 9 = 521=>21-14=7 30=> 30-21=9 Each next terms difference is added by 2, thus the missing no is 30 Ans.

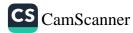


DATE:	
QNO18	
Ans: (a)	
Data:	
Width = 8:60% of its length Length = 15ft.	
Romm's dimensions?	
$S\delta1$ , Width = $60 \times 15$	
Width = $6x3 = 7 \frac{18}{2}$	
Midth = 9 fit.	
Room.	width = 9 ft
Length = r5ft	
	room will be



DATE: / /20
Data: (b)
Dog Park -
Dog Park - Vena van 48ft · East
Ran Joft North
501.
If she would
have von in
straight line.
- W_E
SUP
N
usr Jopt
ABLI E
Total distance.
48 + 30 = 68 ft.
Therefore, her total distance is 68ft
and she would run from stating
point if would have run in straight
direction.
Ams

.



DATE: /\_/20\_\_\_ ----(c) Data Avenage marks of 40 student = 52.15 Marks of a student were taken 49. Insteed of 85 New average marks of class=? Sol:-50.15 40 = -: 85-49=3G 40×52.15 = 2086-36 = 2050. Average of Us students NOW Average = 2050 = 51.35uo So, the new averge will be 51.25 Aus (d) Dola: Total people = 37. .37 people liker vegetable Pizza. like chicken Pizza. 25 like neither 3 Probability of chicken Pizza. S.a. . Total people = 37+25-3 = 65 people. : Probability = Part Total Probability = 05 => 0.38 65 Thus - the propability of chicken Pizza is 0.38

