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	DATE: _/_/ 28824	47
	Part-II	
	Section-A	
	$\square$	
	d#d	
Definition	General Instructions	
-	Liculatory System	
	Def. I.t. is a system which in helping to he	adings
	the transportation of 2nDo not write leftigthy body Write medium sized par	<del>aragra</del> phs.
	Explaination headings.	
	2 De net use teble for	omparison and
-	This system installing the Do Doldest tabled of a contrast questions. In which verieur gares for instance of your 4. Draw figures/diagram	/flowebort
	where needed.	
	This system comprises. Startenew question fr	
	Coppilories, vein and 6 Write-unit of the answ oxygenated Arteries: @carry 7 blassectiony from heart	<del>er in a</del> bility
	Arteries: Ocarry 7 blas & Collopy from heart	steps and the
	Draw high 7. Explain mathematica reaconing for better sco	re.
	Veins: O correge black Grand Care expension 8 Change colour schen toward heat elerences to give them	ne for
	Develop 92 Manage time well.	more visibility.
	Cappilaries: OThey are 10, Widerpage bardenet	are
	D Correspondence of the provided be	reasonable.
	11. Avoid writing wrong 12. Give more weightag	references.
	3 12. Give more weightag 3 No block fresselly asked part	e to
	question.	
	I Uman Meart	
	Location: in the middle of chest close	
	to Delt side of body	

DATE : \_\_\_/\_\_/\_ chamber: It has + chamber () Atrium and 2 Ventricle a gram pulmor Jew P. Quarory arters Arrie Venacava left atrium cight Jaly lef + il. ricur fid right. Ventircle Sept Hov it works 0 blood inte Veins brings de exygenated Venacava ( largest voin) 2 From venacava de oxygenated bland pumped into Right atrium right atrium contract through 3 tricuspid value (prevent back your of blowd) blood is pumped int deoxygeneated eft atrium ventricle Deft ventricle contract, the G bland is pumped into Pulmonary Artery Pulmonary Artery takes that blood into (5) lungs from where oxygenation process take place 6) From lungs, pulmonary vein bring oxy generated blad into Left Atrium

0.10 DATE : \_\_\_/\_\_/\_ when left atrium contract, the axygeneated blood through bicuspid value is pumped into Left ventrich 8 when left ventricle contract the blowd again pumped into Aorta (big artery) @ From Adrias the arteries carries oxyg. blood to other side of the body From the aforementioned discussions it co be said that he aret plays a pivetal Tale as it corrier one of the most Sophisticated function of the bod Carbohydrate Def. carbohydrate are organic compaind which contain carbon, hydrog and oxygen > They are main source of energy -> Tt's empirical formula is Cx (H. a) Example: glucou, Fructose, mostose, lactore are come of the example Classification of carbohydrate (1) Manasaccaride diteral meaning mana-one, sacride-sugarunit Def. They have anly one usar unit -> Simplest carbohydrate

DATE : \_\_\_/\_\_\_/\_\_\_ Example: glucore; Exuctore (2) 00 isa caccrida aning: oligo-few Sacarde - sug 08 ore monosaccordou age they they form aligo Saccride Yong . 2monasaccoide combine disaccoide evosaccride combine trisaccridelete Example - Sucrase, Lactose and maltoge (3) Polycarczide Literal meaning Palymonosaccride unit join Def. when together they Jam poly saccride Example: starch glycagen et Function of Carbohydrati (1) The , are stored in the form of glucogen Cenergy rever and are produce Krel Cycle energy source for bod 3 of the ba (4) form ctrue

DATE : \_\_\_\_/\_\_/\_ ---iver as the ch chemist it Der form ton • in digetive Hen hi 0 6 de toxificatio Drac Qand 3 040 ies paisnous substau a Value ate 0 Did 5 involve resis y in ixea  $\bigcirc$ It store protein and carbohydrate Nater Pollution the COL incl 6 rowine water lodies vater Pallution 200 ion ical huc with + 1 inted It is as

DATE : \_\_\_/\_\_/\_\_\_ DATE : -Physical change in water bodies Forexample: calour, smell, adour, taste changes. Cauces 1) Industrial Twaste spread or thrown into river. 2 Agricultural worte and domestic waste thrown into water bodie. 3 oil spill is also an cause of such. D Bicological water Pollution when tiny hannful micro organism F are present in wrenter body it maker biological water pullistion Example: bactarie, viruser, etc. Causer. 1) It can be due to untreasted water which may lead to out break of chalera @ Eutrophication is another cause 3 Chemical water fallution Def. when instructed chamical wate is throws into water badies it leads to chemical water waste Cause Owhen heavy metal like Hg, AQ, Si are thrown into waster bodies. It leads to chemical mater pallition D Fertilizer are another example.

DATE : . Onic band e complete trancfer 01 ulting (low) atom be can gainine ata. orexample 11 Na=1222209 3,1 = 152 20 2 2 06 3 1 2 3 / C XX Nation ce iou row to complete it Va Joses e De octed gain electron to comple octed 0

8 DATE : \_\_\_/\_\_/\_ Coval ent band Def. It is due to the metral of electron formed between non-Example that. H-15 , OF 15222 p Hydrogen get its duplet complete to complete ita While oxygenget octet. Artificial Intelligence has taken the world by storm. It bringing in our day to day changes For instance chat art, rabotics, deep Fake, metaverse etc. All of H phenomenas are revolantionizing world. Chat GPt: This AI tool is open hub of unlimited resource content

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which will bridge the Knowledge	,
 Sap difference and where provide	
ancience to almost every questich	
 Robotics: AI generated robots and	
 AI powered care are becoming a	
new inhountion in this process Forinstonces	
Teron is making AI car on deep	
 learning toul.	
 Dones: AI powered weapon are now	
 used in weapon system Forexample	
 Seef automated dranes have made	
, this possible	
 Metaverse: This is a new phenomenon	
 As meta mean beyond, verse mean	
universe This AI that aim to diversity	
 our reality into 3 dimension feccutly	
Facebook has storted work on it It	
is using virtual and anghanted	
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Guncantrollable machine, which	
extent we donat K-raw.	
 (3) will take thumans decision making	
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and the second second

DATE : \_\_\_/\_\_/ DATE : (3)Water scoreity is making the Future of humanity bleak on th good earth variance mations are Jacing immense water scoreity Forinetance, Pakistan, Egypt, Middle (4) Eastern mentions etc. More over. table is declining at a mu Factor rate Situation in Pakistan Pakistan is a water ctressed country As per UNDP, by 2025 14 Pakistan will be facing acute to Sever water scarcity More aver, water storage caparity of Pakistan is just 33 day, while India 15 120 days and china + + + days Measures to deal water ccarcity (1) Built mare dauge Pakistan loses abot of marter to sea So Pak a water stressed natid Should build concell to medium water dame D Build more canal and barrage Pakistan should invest in building Canal and barrage to divert the water flow, and increase its storing corpacity

DATE : \_\_\_/\_\_/\_ (3) Innovation in agricultural prantices adopt innova muct -ve Practic forir irrisation sprinkle Vrigation irrigation al flood low water (4)which absorb Crape Sh less ld invert orta Sugarc Crops Oik coope like mail e constitue Veligble er is che child be in textbook 15 Conse adoptar Sovernment muit arctu should llange in the Knowledge + eventral contradit 708 grau be taken not mist Vaceire G Weak agent which proces pumped inride +ax budy antibiotics get the K:ll it ar ted and agent accorded its t 4600 ree seri organism whatever

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Detail?	used as a varine to boart		
	D Killed virares: are and to activate		
	the immunity of bdy es palso		
	3) Taxed virus are used which are		
	inactivated and increase body		
	Q cojugate: Vixues combined with		
	protein to activate body inmunity		
	Section-B		
	$Q^{\#}$	í L	
	$\frac{\text{Reason?}}{(1)}$		
	(1) 8, 4, 32, 1, 5		
	(ii) 17, 19,23, 28, 31,31		
	(b)		
	Data		
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