Greenlawns High School Terminal Examination 2024-25 Subject: Biology

Subject: Biology
Date: 27/09/2024 Marks: 80 St be written on the paper provided separately. To write during first 15 minutes. Treading the question paper. It of this Paper is the time allowed for writing
SECTION A
s to the questions from the given options:(15) he corresponding answer) spaces of individual cells of the body is called
b) Interstitial fluid d) Intratitial fluid
b) Saline water d) Coconut oil
isms reproduce by forming spores? c) Chlorella d) Chlamydomonas
by bring oxygenated blood from the lungs. pen into the right auricle. b) A is wrong, B is correct d) A & B both are wrong
es from atmosphere into leaf cells and cells into the atmosphere. b) Oxygen, Carbon dioxide d) Oxygen, Nitrogen.

vi) The artrio-ventricular valves ____ with a sound when the ventricles are

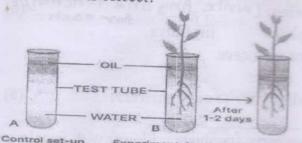
b) Open, Open c) Close, Open d) Close, Close

full. At the same time the semi-lunar valve _____.

a) Open, Close

vii) In flowering	plants, male gam	nete is formed inside	
a) Ovary	b) Anther	c) Pistil	d) Ovule
viii) Which of th	ne following opti	ons depict cross -pollina	ation in the given
diagram?			Suc VIII
Visionaria hab	A.	Percentual be writed	
and the	No By	January of Lewella	
	100	a spent in reading the qu	
Sit	BIV JELLE	n the fixed of this Paper	
6830 A	Lange M		
MALT	NO PRO	SECTION	
30	No.		
(Site Bug and			
a) A & B		c) Only B	
4,1100	0) 15 60 0	c) Only B	d) Only C.
		biggest artery present in	
a) Aorta	b) Pulmonar	y artery c) Renal artery	d) Coronary artery
x) Wind pollinat	ed flowers are		
a) Large and sce		b) Small with stic	ky pollen grains
	pollen grains	d) Large and dull	coloured.
-5 6	TNI is a second		
		heir food as sucrose. r food in form of starch.	
a) A & B both ar		b) A is wrong, B	is correct
		d) A & B both ar	e wrong
	d group is O posi	tive, so he will have	antigen present
on his RBC.	b) B	c) A & B	d) Naithan A D
Lanced Lanced	less total attail area in	C) A & B	d) Neither A nor B
xiii) The mode of	reproduction in v	which plants parts are use	d to develop pow plant
is called		men piants parts are use	a to develop new plant
a) Spore formation	n	b) Vegetative propagat	ion
c) Binary fission		d) Sexual reproduction	
		ne semi-lume valve	
xiv) During night	time, transpiratio	n in plants	
a) decreases	b) increases	c) remains the same	d) hardly occurs

xv) For the following experiment, four students wrote their observation. Whose observation is correct?



- Experimental set-up Experimental set-up (Initial stage) a) Student A - There is no change in the water level.
- b) Student B Water level has decreased due to evaporation.
- c) Student C Water level has increased because of absorption of water by the
- d) Student D Water level has decreased because of absorption of water by the

Q.2 Name the following.

- i) The protective double layered membrane of the heart.
- ii) Elongated dead cells with tapering ends present in xylem tissue.
- iii) Asexual reproduction seen in Spirogyra.
- iv) Natural pacemaker of the heart.
- v) The cell mass formed after the growth and division of cells during tissue culture.

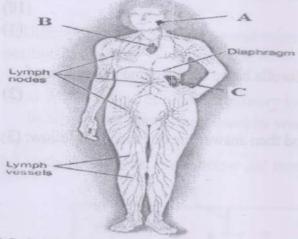
Q.3 Match the following. (Write the correct pair in words)

Column A	Column B (5)
i) Heart attack	
ii) Cardiac arrest	a) Heart suddenly stops pumping blood around the body b) Blood flows through blood was all its
iii) Palpitations	b) Blood flows through blood vessels with a greater force
iv)Hypertension	c) A sudden interruption of blood supply to the heart
v) Coronary artery disease	d) Wall of the arteries thicken due to fat deposition e) Heat beating too slowly
	f) Heart beating too fast

- Q.4 State whether true or false, if false correct the underlined word and (5) rewrite the statement:
- i) Conduction of food in plant cells requires expenditure of energy.
- ii) The third whorl of a bisexual flower consisting male reproductive parts is called as Androecium.
- iii) Transpiration is reduced if the air is dry.
- iv) Person with blood group O is called a universal recipient.
- v) Onion is an example of vegetative reproduction by root.

Q.5 Write the function of the following: (Write Any one fun i) Tri-cuspid valve. ii) Sieve plates. iii) Calyx.	chon)(5)
iv) Stigma. v) Superior vena cava.	
Q.6 Complete the following correlation: (write only answers) i) Bacteria: Binary fission:: Yeast:	(5)
ii) Flower with only male reproductive parts: staminate:: Flower with reproductive parts: iii) Ovules: Seeds :: Ovary :	female
iv) Maize: Wind pollination:: Lotus:	
v) Phloem fibres: Mechanical strength :: Phloem parenchyma :	100.0
SECTION B	
Q.7 Answer the following:	(10)
i) Give reason - Ventricles have thicker walls as compared to auricles.	(1)
ii) Study the experimental set up given below and then answer the questiollow:	stion that
Water Dropkets	
Polos Polytone	
tions (a) A southest interruption of bland supply or (a)	
a) Define the phenomenon shown in the above picture.	
b) Explain importance of above phenomenon mentioned by you in a. (a	any one)
iii) How does pollination occur in aquatic plants?	(2)
iv) Write two benefits of plant tissue culture technique.	and adding a

v) The lymphatic system is shown in the following diagram, Study the diagram and answer the question that follow:



a) Label lymphatic organs A and C.

b) Give reason- We often experience painful swellings in the axils of our arms when we get a boil or injury in the limbs.

Q.8 Answer the following: (10)

i) Differentiate between lymph and blood based on their cellular composition.

ii) How do chest compressions and mouth-to-mouth resuscitation increase the chances of survival of a person showing symptoms of heart attack or cardiac arrest?

iii) What is ascent of sap? Name any one force which contributes in ascent of sap.

iv) Give reasons-

a) Wind pollinated flowers have long anthers.

b) Wind pollinated flowers produce a large quantity of pollen grains.

v) Study the picture given below and then answer the question that follow: (3)



a) Identify the leaf shown in the above picture.

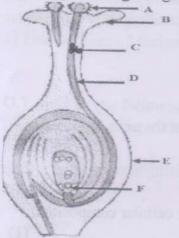
- b) Label part A.
- c) How does this plant reproduce?
- Q.9 Answer the following:

(10)

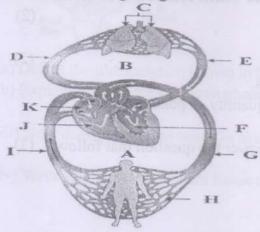
i) Define: Propagule.

(1)

- ii) Differentiate between Calyx and Corolla based on the name and colour of their constituents. (2)
- iii) Study the diagram given below and then answer the question that follow: (3)



- a) Define the process shown in the above diagram.
- b) Write the function of D.
- c) Label C.
- iv) Study the diagram given below and then answer the question that follow: (4)



- a) What is depicted in the above diagram?
- b) Why the above name (mentioned by you in a) is given to this process?
- c) There are two parts in the above diagram A and B, Label these parts.

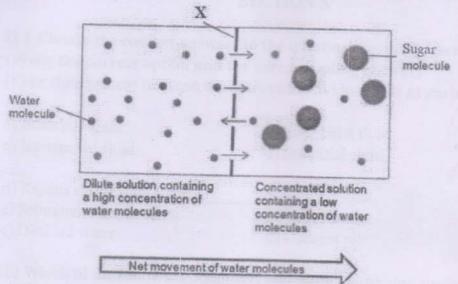
Q.10 Answer the following:

(10)

i) How does cell sap present in root hair helps in absorption of water?

(1)

- ii) Differentiate between arteries and veins based on direction of blood flow and position in the body (2)
- iii) a) Which is type of blood circulatory system is present in insects?
 b) Why is this name (mentioned by you in a) is given to this system?
- iv) Study the diagram given below and then answer the question that follow: (2)



- a) Name the process shown in the above diagram.
- b) Label X.

v) Draw a neat labelled diagram of a root hair. (Label any four parts)

(3)