Greenlawns High School

Final Examination 2024

Subject: Biology

Std: IX C Date: 21/02/2024

Time: 2 Hours Marks: 80

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers.
- Section A is compulsory. Attempt any four questions from Section B.

SECTION A

(Attempt all questions from this Section.)

Q.1 Choose the correct answers to the questions from the given options:(15)						
i) TAB vaccine	e is for					
	b) Tuberculosis	c) Typhoid	d) Diphtheria			
ii) Which of th	e following statement	is not true for the air v	which is exhaled			
during respirat	ion?					
a) It contains more oxygen.		b) It contains	b) It contains more carbon-dioxide.			
c) It contains more water vapour.		d) It is warme	d) It is warmer.			
a) Hepatitis A	b) Hepatitis B s is caused by	c) Hepatitis C	•			
a) Amoeba pro	teus	b) Amoeba gor	rgonian			
c) Entamoeba	histolytica	d) Amoeba ag	ilis			
v) Sulphadiazii	ne is a	drug.				
a) Sulphide	b) Sulphate	c) Sulphite	d) Sulphonamide			
vi) Which of th	ne following is not a fu	nction of skin?				
a) Prevents excessive loss of water		b) Synthesis o	b) Synthesis of Vitamin B.			
c) Prevents ent	ry of disease causing g	germs d) Temperatur	re regulation.			

vii) COVID – 19 di	isease spread word-wide	e hence it is catego	rised as
a) Endemic b) Pandemic	c) Epidemic	d) Sporadic
viii) Which of the f	following is the inner mo	ost layer of Epideri	mis?
a) Malpighian layer		b) Stratum corne	
c) Granular layer		d) Cornified laye	
e) Granarar ray or		a) Commediaje	•
	llowing are rod shaped	bacteria?	
a) Cocci	b) Bacilli	c) Spirilla	d) Vibrio
x) Which of the following	lowing diseases is sprea	nd by sputum of inf	ected person?
a) Cholera b) Tuberculosis	c) Typhoid	d) Tetanus
xi) The principal he	eat –regulating centre is	located in	of the brain
a) Cerebrum		b) Thalamus	
c) Hypothalamus		d) Medulla oblon	gata
, , , ,		,	
xii) Which bacteria	fixes nitrogen in soil?		
a) Nitrosomonas	<u> </u>	c) Rhizobium	d) Clostridium
	,	,	•
xiii) Cartilage and b	ones belongs to		
a) Epithelial tissue	b) Connective tissue	c) Muscle tissue	d) Neural tissue
a) They are unicellu	t differentiated into part lorophyll.	_	aves etc.
xy) Which of the fo	ollowing muscles are for	unds in arms and le	.os?
a) Striated	b) Unstriated		d) None of these.
u) Suracou	o) Charlacta	e) caraiae	a) I voice of these.
Question 2			
A) Name the follow	wing:		(5)
	oduction in bacteria.		
•	ngulfing bacteria by wh	ite blood cells.	
iii) The vector for t	ransmission of Sleeping	g sickness.	
iv) A condition in v	which the blood become	es more venous by	accumulation of
carbon dioxide and	the oxygen supply is di	minished.	
v) A condition in w	hich the immune syster	n fails.	

B) Fill in the blanks:	(5)
i) The first antibiotic discovered by Alexander Fleming was named as	
ii) is a very effective antibiotic in treating typhoid. iii) fluid is found in between the membranous covering of the luiv) Rising of dough during bread making, is called as v) tissue is found at all growing points of a plant.	ıngs.
C) State whether true or false, if false correct the underlined word:	(5)
i) HIV has <u>DNA</u> as its genetic material.	
ii) Cellular respiration means chemical changes occurring inside the cell.	
iii) Tuberculosis is a <u>viral</u> disease.	
iv) Acquired immunity is by virtue of genetic constitutional make-up.	
v) Most of the bacteria are <u>heterotrophic</u> .	

D) Match the column: (Write the correct pair eg. i-a)

Column A	Column B	
i) Mammary glands	a) Give out oily secretion to keep the skin oily and	
	waterproof.	
ii) Meibomian glands	b) Helps in perspiration.	
iii) Ceruminous glands	c) Secretes milk in females.	
iv) Sweat glands	d) Secretes wax like substance to protect eardrum.	
v) Sebaceous gland	e) Secretes tears.	
	f) Secretes oily substance which lubricates the	
	margins of the eye-lids	

(5)

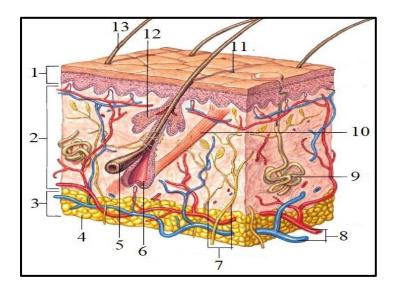
E) Choose the odd one out from the following terms and name the category to which other belongs: (5)

- i) Colour-blindness, Diabetes, Malaria, Beri-beri.
- ii) Salting, Curdling of milk, Processing of curd, Curing, Ripening.
- iii) Tears, Nasal secretion, Hair, Sweat, Saliva.
- iv) Whooping cough, Pneumonia, Tuberculosis, Chicken pox.
- v) Sieve tubes, Companion cells, Tracheids, Phloem Parenchyma.

SECTION B

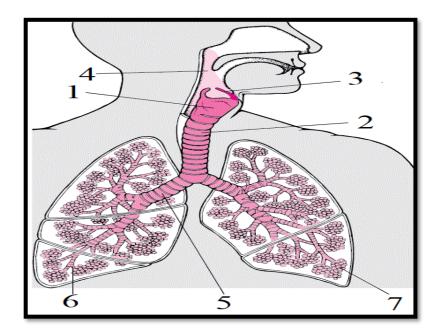
(Attempt <u>any 4</u> questions from this Section.)

Question 3:	(10)
i) Define: Antibiotics.	(1)
ii) Write the reaction of anaerobic respiration in animals. In which anim anaerobic respiration take place?	al cells (2)
iii) What is antiseptic? Write two examples of antiseptic.	(2)
iv) What is the causative agent of Ascariasis? How does it spread?	(2)
v) Explain any three characteristics of Antibodies.	(3)
Question 4:	(10)
i) What is cell wall of bacteria made of?	(1)
ii) What is toxoid? How is it made?	(2)
iii) Differentiate between Malaria and Filariasis based on their causative and vectors.	e agent (2)
iv) What is Vasoconstriction? How does it affect sweating?	(2)
v) Explain any three methods of transmission of HIV virus.	(3)
Question 5:	(10)
i) What do you mean by incubation period?	(1)
ii) Name the disease caused by Tapeworm. Why does patient become te weak in this disease?	rribly (2)
iii) Give reason: Respiration rate is higher in animals than in plants.	(2)
iv) Differentiate between Active and Passive immunity. (2 Points)	(2)
v) Study the following Structure of human skin and answer the question follow:	s that (3)



- i) Label parts 6 and 13.
- ii) What is the function of 4?
- iii) What is the function of 7?

Question 6:	(10)
i) Differentiate between Leucoderma and Albinism. (1 point)	(1)
ii) Explain – Spore formation in bacteria is a method of escaping unfavoral conditions.	ble (2)
iii) State the location and function of Areolar tissue.	(2)
iv) Describe the structure of Nerve cell.	(2)
v) Draw a neat labelled diagram of Bacterial cell. (Label any 4 parts).	(3)
Question 7:	(10)
i) Write any one serum compound produced by genetically modified bacter	ria.
	(1)
ii) How pimples are different from Acne?	(2)
iii) Explain the method of pasteurization as a food preservation method.	(2)
iv) Which muscles are involved in formation of 'goose flesh' in human ski Name the protein present in hair and nails.	n? (2)
v) The following diagram represents human respiratory system. Study the diagram and answer the question that follow.	(3)



- a) Label and name the part where gaseous exchange take place.
- b) In which part vocal cords are present?
- c) Label and Name the parts where C-shaped rings of cartilage are present.

Question 8:

i) Define: Residual volume.

ii) What is respiratory cycle? Name the muscles involved in respiratory cycle.

(2)

iii) Define: Fermentation. Which micro-organism is used for making wine?

iv) What is lymph? State its function.

v) Write the function of the following:

a) Squamous epithelium.

c) Glandular epithelium

b) Cilliated columnar epithelium.