St. Thomas' School, Agra Half Yearly Examination (2024-25) (Specimen Question Paper)

Class: IX

Subject: Science Paper-3 (Biology)

M. Time: 2 Hours Name:	M. Marks: 80 Roll No.:
Section – A (40 Marks)	
Question 1. Choose and write the correct answer: i.Ball and socket joint is found at: a. Shoulder b. Hip c. (a) and (b) d. Elbow	[15]
ii.Mammary gland is a modified: a. Sebaceous gland b. Thyroid gland c. Sweat gland d. Ceruminous gland	
iii.The blood leaving the tissue becomes richer in: a. Carbon dioxide b. Water c. Haemoglobin d. Oxygen	
iv.Malaria is caused by a: a. Helminth b. Bacteria c. Protozoan d. Virus	
v.Penicillin is: a. an antivenin b. an antiseptic c. an antitoxin d. an antibiotic	
vi.Which of the following is a hinge joint? a. Knee b. Shoulder c. Hip d. Wrist	

vii.Insulin is secreted by:

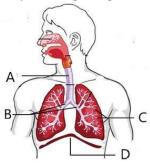
a. Pituitary gland

b. Pancreas	
c. Thyroid gland	
d. Adrenal gland	
viii.Oxygenated blood is carried by:	
a. Pulmonary artery	
b. Pulmonary vein	
c. Vena cava	
d. Right ventricle	
di riight ventroie	
ix.Tuberculosis is caused by:	
a. Virus	
b. Bacteria	
c. Fungi	
d. Protozoa	
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x.Which of the following is used to treat bacterial infections?	
a. Vaccine	
b. Antibiotic	
c. Antiviral	
d. Antifungal	
xi.Which of these glands is known as the "master gland"?	
a. Thyroid gland	
b. Pituitary gland	
c. Adrenal gland	
d. Pancreas	
xii.Which vitamin is produced in the skin when exposed to sunlight?	
a. Vitamin A	
b. Vitamin B	
c. Vitamin C	
d. Vitamin D	
	
xiii.Which of the following diseases is NOT transmitted by mosquitoes?	
a. Dengue	
b. Malaria	
c. Cholera	
d. Zika	
xiv.The normal pH of human blood is:	
a. 6.4	
b. 7.0	
c. 7.4	
d. 8.0	
xv.Which of the following is a primary consumer in a food chain?	
a. Lion	
b. Deer	
c. Grass	
d. Eagle	

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Questi				
	plete the following statements:	athing is the	[5]	
	The primary muscle involved in the process of breather tiny air sacs in the lungs where gas exchange of			
	The blood vessel that carries oxygenated blood fro			
-,		3		
d)	The main artery that carries oxygenated blood from	m the heart to the rest of the body is	the	
e)	The process by which oxygen is taken into the body	y and carbon dioxide is expelled is kno	own as	
ii. Corr	rect the following false statements:		[5]	
	a) The diaphragm relaxes during inhalation, causing air to enter the lungs.			
b)	b) The pulmonary artery carries oxygenated blood from the lungs to the heart. The aorta is a vein that			
,	carries deoxygenated blood back to the heart.			
-	Hemoglobin is a protein in white blood cells that b			
-	During exhalation, the diaphragm contracts and the The tricuspid valve prevents backflow of blood from	•	n	
C)	The theaspia valve prevents backnow of blood from	The fere ventrale mes the fere duran		
(iii) Fii	nd the odd one out along with a reason.		[5]	
a)	Rib cage, Diaphragm, Heart valves, Intercostal mus	cles		
b)	Plasma, Platelets, Hemoglobin, Hormones			
c)	, , , , , , , , , , , , , , , , , , , ,			
	Diaphragm, Trachea, Bronchi, Esophagus Lungs, Heart, Kidneys, Alveoli			
C)	Lungs, Heart, Nuncys, Alveon			
iv. Mat	tch the following		[5]	
	plete absence of pigmentation in the skin	a. Drainage		
	s, hair, horns, hooves etc.	b. Pandemic		
iii. CO\ iv. Mal		c. Albinism d. Keratin		
v. Efflu		e. Anopheles		
v. Lilla		c. / mopheres		
v.State	e the location of the following structures		[5]	
a. Villi				
	nchiole			
c. Nucleolus				
d. Headquarters of WHO e. Malpighian Layer				
0	P-0e 24/6.			
SECTION B (40 Marks)				
(Attempt all the questions.)				
Question3				
1. Write the functions of the following in the digestive process: [10](a) Bile (b) Bicarbonates				
2. Give two examples each of.				
	ll and socket joint (b) Hinge joint	(c) Gliding joint		

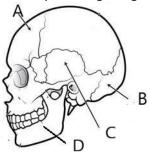
3. Study the diagram given below and answer the following questions:



- a. Label the parts A, B, C and D.
- b. State the main function of label D.
- 4. What is the significance of emulsification of fats?

Question 4

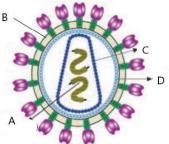
1. Study the diagram given below and answer the following questions: [10]



- (a) Label the parts A, B, C and D.
- (b) State the role played by label D.
- 2. Write a short note on:
- (a) TB
- (b) AIDS
- 3. What is domestic waste? Give examples.
- 4. Differentiate between the following:
- (a) Breathing and Respiration
- (b) Respiration in animals and plants
- (c) External and Internal respiration

Question 5

1. Study the diagram given below and answer the following questions: [10]



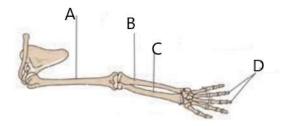
- a. Label the parts A, B, C and D.
- b. State the disease caused by the object shown above.
- 2. Write a short note on:
- (a) Waste from mining operation
- (b) E-waste
- 3. List two activities of the Red Cross Society.

4. Describe any two uses of Antibiotics.

Question 6

1. Study the diagram given below and answer the following questions:





- a. Label the parts A, B, C and D.
- b. State any two joints shown in the diagram above.
- 2. State any three important functions of the skin.
- 3. Differentiate between:
- a. Communicable and non-communicable diseases
- b. Congenital and Acquired diseases
- 4. Define the following terms:
- a. Pasteurization
- b. Epidemic