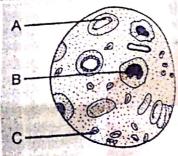
ST. MARY'S HIGH SCHOOL, NEW COOCH BEHAR 3rd Unit Test (2021-2022)

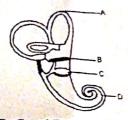
Class- X BIOLOGY (S	CIENCE PAPER 3)	Time: 1hr	FM: 30	
SEC	BIOLOGY (SCIENCE PAPER 3) SECTION A			
(Attempt	t all questions)			
Question 1				
Name the following by choosing the correct answer	s to the questions from t	he given options.	[10]	
(Do not copy the questions, Write the correct ans	swer only)			
(i) Blood cells are manufactured in:				
(a) Bone marrow (b) Spleen	(c) Red Blood cell	s (d) Pl	latelets	
(a) 80 mmHg (b) 60 mmHg	healthy adult human is -	(d) 1:	10 mmHg	
(a) 80 mmHg (b) 60 mmHg iii) The adult human heart beats about times	(c) 90 mmHg	(d) 11	(d) 110 mmr.g	
(a) 42 (b) 52	(c) 62	(d) 72	2	
iv) is a small branch of an artery that leads i		The same of the same		
(a) Capillary (b) Areolas	(c) Arteriole	(d) N	(d) None of these	
v) Cell body of neuron is also known as				
(a) Axon (b) Cyton	(c) Bipolar neuron	(d) S	ynapse	
(vi) The brain is responsible for		the body (d) o	(d) all the above	
(a) Thinking (b) Regulating the	heart beat (c) Balancing	the body (d) as	ii tile above	
(a) Company (b) Puril	(c) Iris	(d) R	(d) Retina	
(a) Cornea (b) Pupil viii) In a neuron, conversion of electrical signal to		, ,		
(a) Cell body (b) Axonal end	(c) Dendritic end	(d) A	xon	
ix) Posture and balance of the body is controlled by	•	<u> </u>		
(a) Cerebrum (b) Cerebellum	(c) Medulla	(d) P	(d) Pons	
x) Nervous system consists of:		Silvery Deligation	. CONTRACTO	
(a) Brain (b) Spinal cord	(c) Nerves	(d) A	all of these	
SEC	CTION B			
	estions from this section	on)		
Duestion 2				
The following diagram represents the human heart i	n one phase of its functi	ions. Study the dia	gram	
arefully and answer the questions that follows:				
	TV /2			
	10 of the			
5	- L V V V C			
			1	
	The state of the s			
	1			
	U			
(-) N		and the same of the same	Alexander Designation	
(a) Name the following:			[2]	
(1) Identify the given phase.			100	
(2) Which part of the heart is contracting in t	his phase? Give reason	to support your a		
(b) Name the parts labelled 1 to 4.			[2]	
(c) Answer the following:			[3]	
(1) What type of blood flows through '2'?				
(2) State the function of the part numbered '5				
(3) Name the membrane that covers the heart				
(d) Draw post lobelled d'	. artery and a ve	in (label any three	parts). [3]	
(d) Draw neat labelled diagrams of a cross section	on of an artery and a ve	([5]	

Question 3

The diagram given below represents a blood smear. Answer the questions that follow.



(a) Differentiate between A and B.	[2]
(b) State two important characteristics of B that enable it to carry out its function.	[2]
(c) Label A, B and C.	[3]
(d) State an important function of each.	[3]
Question 4	
(a) What is meant by "Power of accommodation" of the eye? Name the muscles of the eye	
responsible for the same	[2]
(b) Define Reflex action and Reflex arc.	[2]
(c) How is Presbyopia different from Myopia? Give two possible reasons for myopia.	[3]
(d) Explain Dark adaptation and write the major changes occurring in the eye during dark Adaptat	tion [3]
Question 5	
(a) Give reason for the following:	[2]
(1) Vitamin K is essential for the process of blood clotting.	
(2) The left ventricle of the heart has a thicker wall than the right ventricle.	
(b) Differentiate between the following pair according to what is given in the bracket:	[2]
(1) Beginning of the ventricular systals and the and of containing the state of the	[2]
(1) Beginning of the ventricular systole and the end of ventricular diastole. (type of heart(2) Artery and Vein. (structural difference between blood vessels)	sound)
(c) The diagram given below represent the structure found in inner ear. Study the same and answ	er the
questions that follow:	[3]



- (1) Name the parts labelled A, B, C and D.
- (2) Name the Audio receptor cells which pick up vibrations.
- (3) Name the fluid present in the inner ear.
- (d) Rewrite the terms in a logical sequence:
 - (1) Artery, Capillaries, Venule, Vein, Arteriole.
 - (2) Posterior vena cava, Renal artery, Aorta, Renal vein, Kidney.
 - (3) Spinal cord, Motor neuron, Receptor, Effector, Sensory neuron.

[3]