

Date: 05/11/24 MONTHLY TEST-02 (2024-25) Max marks: 20

Grade:XI BIOLOGY(044) Time:50min

General Instructions:

1. There are 9 questions in the question paper. All questions are compulsory.

Qn.	SECTION A	Marks
No		allocated
1	What will happen if the diameter of the afferent arteriole is less than efferent arteriole?	1
	a) Dilute urine b) Concentrated urine c) No ultrafiltration d) Black urine	
2	Which hormone regulates the reabsorption of water in the distal tubules and collecting ducts of the nephron?	1
	a. Insulin b. Thyroxine c. Antidiuretic hormone (ADH)	
	d. Aldosterone	
	What will be the immediate effect if the chordae tendineae of the tricuspid valve of the human heart is partially non – functional due to some injury?	1
	(a) The flow of blood into the aorta will be slowed down	

(b) The 'pacemaker' will stop working	
(c) The blood will tend to flow back into the left atrium	
(d) The flow of blood into the pulmonary artery will be reduced	

4	 Both A and B are true and the B is the correct explanation of A Both A and B are true but the B is not the correct explanation of A A is true but B is false Both A and B are false 	1
	Assertion: Aldosterone is a steroid hormone and is important in the	
	control of sodium and potassium ion concentration in mammals.Â	
	Reason: It upgrades sodium ion concentration in the ECF by	
	promoting reabsorption of sodium ions from renal tubules and	
	excretion of potassium ions in urine	
5	SECTION B What is the remedial measure advised for the correction of acute renal failure? Explain briefly.	2
6	Give reason why aquatic animals ate mostly ammonotelic in nature whereas terrestrial forms are not.	3
7	State the functions of the following in blood. • Fibrinogen • Globulin • Neutrophils • Lymphocytes	3
8	a)What is the significance of the AV node and AV bundle in the functioning of the heart? b)Why do we call our heart myogenic? c) Explain the consequences of a situation in which blood does not coagulate.	3

	SECTION C	5
9	a)Describe the role of Renin-Angiotensin in the management of Kidney function	
	b)Expand the following excretory functions:	
	a) ANF b) ADH c) GFR d) DCT	
	c)What is the role of tubular secretion in maintaining acid-base and ionic balance in the body fluids?	