



Date:09/11/23

MONTHLY TEST-03 (2023-24)

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. No	SECTION A	Marks allocated
1	Which of the following components is responsible for the clotting of blood?  A) Platelets    B) Red blood cells    C) White blood cells    D) Plasma	1
2	Directions: In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:  Assertion: In cortical nephrons, vasa recta is absent or highly reduced. Reason: Cortical nephrons are mainly concerned with concentration of urine.  (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion. (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion. (c) If Assertion is true but Reason is false. (d) If both Assertion and Reason are false.	1
3	What is the normal pH range of urine in humans?  a. Acidic (pH < 7)    b. Neutral (pH = 7)  c. Alkaline (pH > 7)    d. It varies widely between individuals.	1

4	Male frogs can be distinguished from female frogs by a) Presence of sound-producing vocal sacs b) Skin colour c) A copulatory pad on the first digit of the forelimbs d) Both a and c are correct	1
SECTION B		
5	Frog is a poikilotherm, exhibits camouflage and undergoes aestivation and hibernation, how are all these beneficial to it?	2
6	What is the role of renin-angiotensin in the management of kidney function	3
7	a)What is erythroblastosis? b)Which of the following conditions cause erythroblastosis foetalis?	3
8	Explain why in the loop of Henle, the glomerular filtrate gets concentrated in the descending limbs and diluted in the ascending limbs.	3
SECTION C		
9	Answer the following: a) Name the major site where RBCs are formed. b) Which part of the heart is responsible for initiating and maintaining its rhythmic activity? c) What is specific in the heart of crocodiles among reptilians? d)Describe the events in the cardiac cycle.	5

