

BOWEN UNIVERSITY, IWO
DEPARTMENT OF BIOLOGICAL SCIENCES
2010/2011 SECOND SEMESTER EXAMINATION
BLY 113: THE VERTEBRATE BODY

Matric number: _____

Programme: _____

Answer all questions.

Time: 1 hr 20 mins.

SECTION A

1. Provide the labels for the structures A-N in figures 1 and 2 stating suitable titles for each.

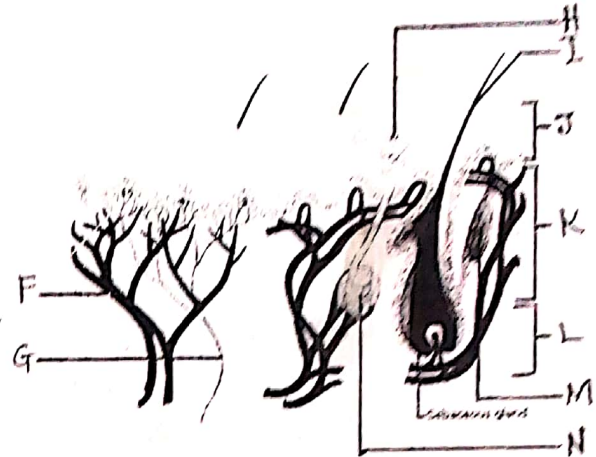
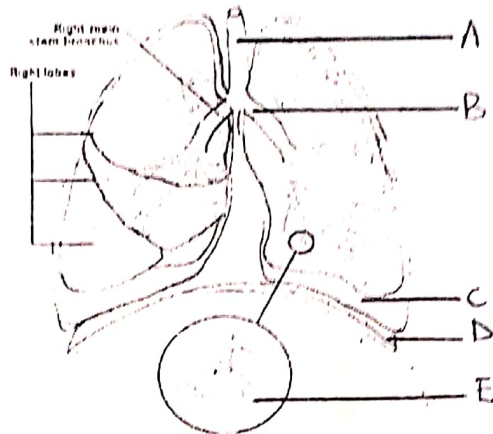


Fig. 1: _____

Fig. 2: _____

- A _____
 C _____
 E _____
 G _____
 I _____
 K _____
 M _____

- B. _____
 D. _____
 F. _____
 H. _____
 J. _____
 L. _____
 N. _____

(16 marks)

2. The process of bone hardening in which cartilage is converted to bone is known as _____

(1 mark)

3. Complete the table below, stating the site of activity in the body and the food substance digested. (6 marks)

Enzyme	Site of activity	Food substance
Ptyalin		
Pepsin		
Amylase		

4. State four functions of the liver.

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____ (4 marks)

5. State four diseases of the liver.

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____ (4 marks)

6. List any three diseases of the skin _____, _____ and _____ (3 marks)

7. The cells responsible for skin colour are known as _____ (1 mark)

8. The skin's ability to return to its original shape after stretching is possible because of the presence of _____ in the dermis. (1 mark)

SECTION B

9. Provide the labels for the structures a-n in Figure 3, stating a suitable title.

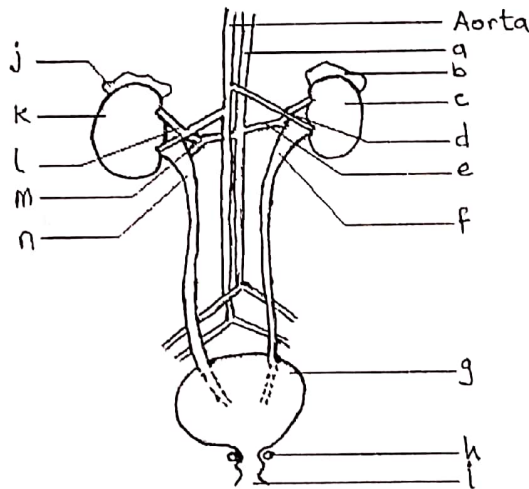


Fig. 3: _____ (8 marks)

- | | |
|---------|--------------------|
| a _____ | b. _____ |
| c _____ | d. _____ |
| e _____ | f. _____ |
| g _____ | h. _____ |
| i _____ | j. _____ |
| k _____ | l. _____ |
| m _____ | n. _____ (8 marks) |

10. List the components of blood plasma, giving examples each.

- (i) _____ e.g. _____
- (ii) _____ e.g. _____
- (iii) _____ e.g. _____
- (iv) _____ e.g. _____
- (v) _____ e.g. _____

(10 marks)

11. List the two types of nephrons.

- (i) _____
- (ii) _____

(2 marks)

12. List the seven hormones produced by the anterior pituitary of vertebrates.

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____
- (vi) _____
- (vii) _____

(7 marks)