



Dr. Blossa Science

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NAME:.....

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SENIOR FOUR

553/1

BIOLOGY

PAPER 1

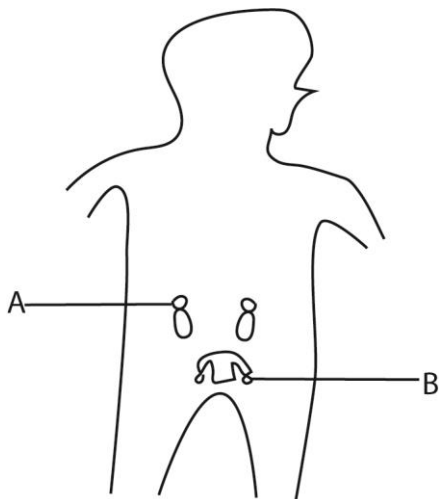
EXAM 17

2hrs

1.a) Distinguish between **endocrine** and **exocrine** glands.

.....
.....

b. Below is a diagram of a **human female** showing the location of two **endocrine glands**.



c. Name the glands **A** and **B** and one hormone produced by each.

A.

B.

d. Give **three** effects of adrenaline in the body.

i.

.....

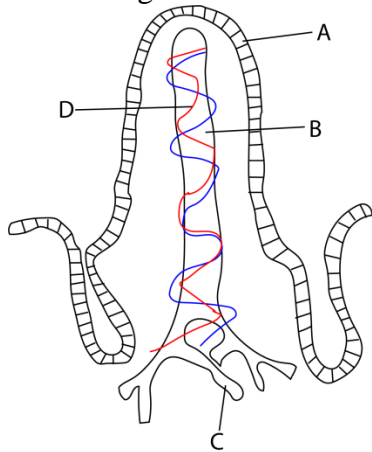
ii.

.....

iii.

.....

QN2. The diagram below shows the structure of the villus



(a) Label parts marked A, B, C and D.

A.

B.

C.

D.

(b) What food substance enter

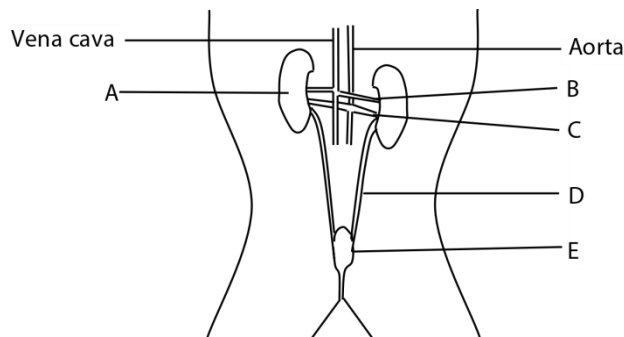
(i) A

(ii) B

(c) State two factors which make a villus an effective absorption structure.

- (i)
- (ii)
- (d) How does the absorbed food in B reach the general circulation?
.....
- (e) State two nutrients which are absorbed before reaching the villi.
.....

QN3 The figure below shows a mammalian urinary system



- (a) Name parts A-F
 - A.
 - B.
 - C.
 - D.
 - E.
- (b) Briefly explain why the concentration of urea in B is less than that in C.
.....
- (c) What is the function of E?
.....
- (d) A sample of urine was found to contain sugar
 - (i) Suggest the type of sugar likely to be in urine sample:
.....
 - (ii) What hormone is likely to be deficit in a person from whom the urine sample was taken:
.....
 - (iii) Name the disease that the person is likely to be suffering from:
.....

(e) Another individual was passing out a lot of urine but without sugar and complaining of thirst most of the time.

(i) Suggest a hormone that is deficient in this individual:

.....
.....

(ii) Name the organ which produces the hormone referred to in (e)(i) above.

.....
.....

SECTION B

- 4. a). Describe the structure of a motor neuron.
- b). What is meant by a reflex action?
- c). By means of a diagram, show the path followed by a nerve impulse during a reflex action.

- 5. a) What is soil erosion?
- b) State the various types of soil erosion.
- c) Explain how man’s activities may lead to soil erosion.

- 6. a) Describe the life cycle of a housefly.
- b) What is the economic importance of a house fly?
- c) How will you minimize the spread of houseflies in a home?

END