

GATITU SECONDARY SCHOOL P.O. BOX 327 - 01030, GATUNDU.

FORM 2 BIOLOGY TUNE UP EXAMINATION. TERM 3 2015.

1. For each of the substrate write the enzyme and resultant product in the ileum. (8mks)

| Substrate | Enzyme | Products |
|------------|--------|----------|
| 1. Maltose | | |
| 2. Lactose | | |
| 3. Peptide | | |
| 4. Lipid | | |

2. Name 2 adaptations that enable the red blood cells to move in blood capillaries . (2mks)

i)

ii)

3(a) Name 3 antigens that determine human blood groups.

i)

ii)

iii)

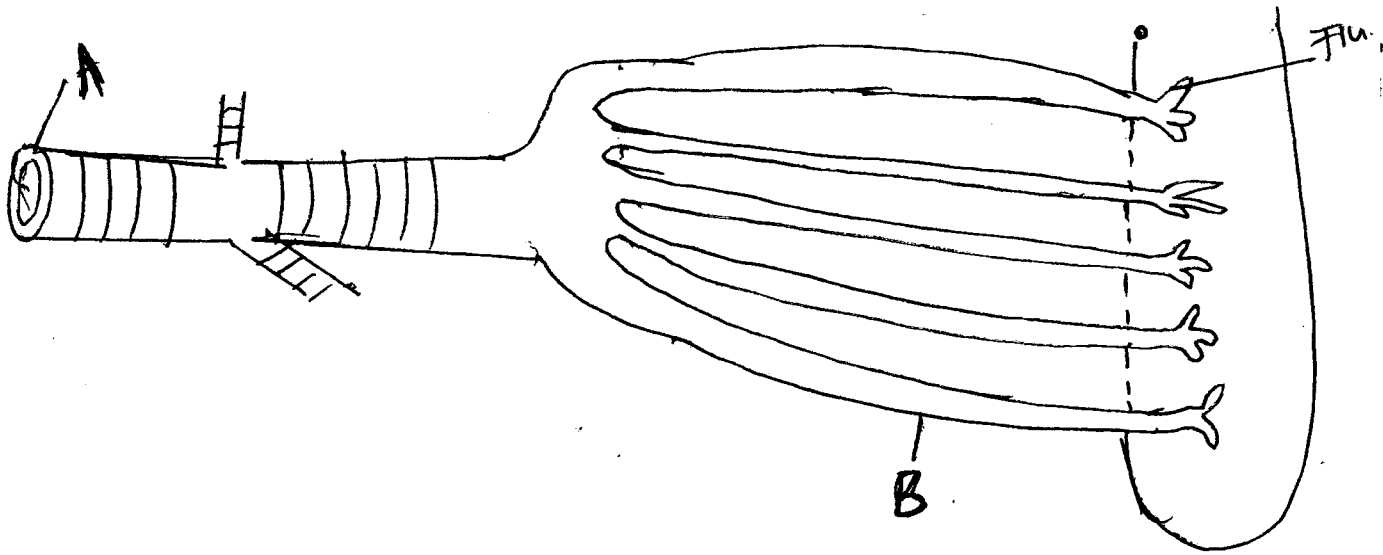
b) Name a possible donor(s) for blood group O _____ (1mk)

4) Name the blood / circulatory condition (disease) which result from:

i) Failure of the valves especially those found at the back of the legs _____
(1mk)

ii) Failure of foramen oude to close (in foetus) at birth. (1mk)

5. The diagram below represent a gaseous exchange structure in an insect.



i) Give functions of the rings of chitin round the trachea. (2mks)

ii) Other than hair in the spiracle name one other structure found at the opening of the spiracle, Give its function. (2mks)

Structure _____

Function _____

iii) Name two functions of the hair found at the spiracle. (2mks)

i)

ii)

iv) Whats the role of the fluid labeled above? (1mk)

6. What is the name of the respiratory surface(s) in (3mks)

i) Amoeba _____

ii) Insects _____

iii) Fish _____

