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**GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.**  
**FORM 2 BIOLOGY. MID – TERM EXAMINATION. TERM 1 2015.**



1. Study the dental formula below



i) What is dentition?

(2mks)

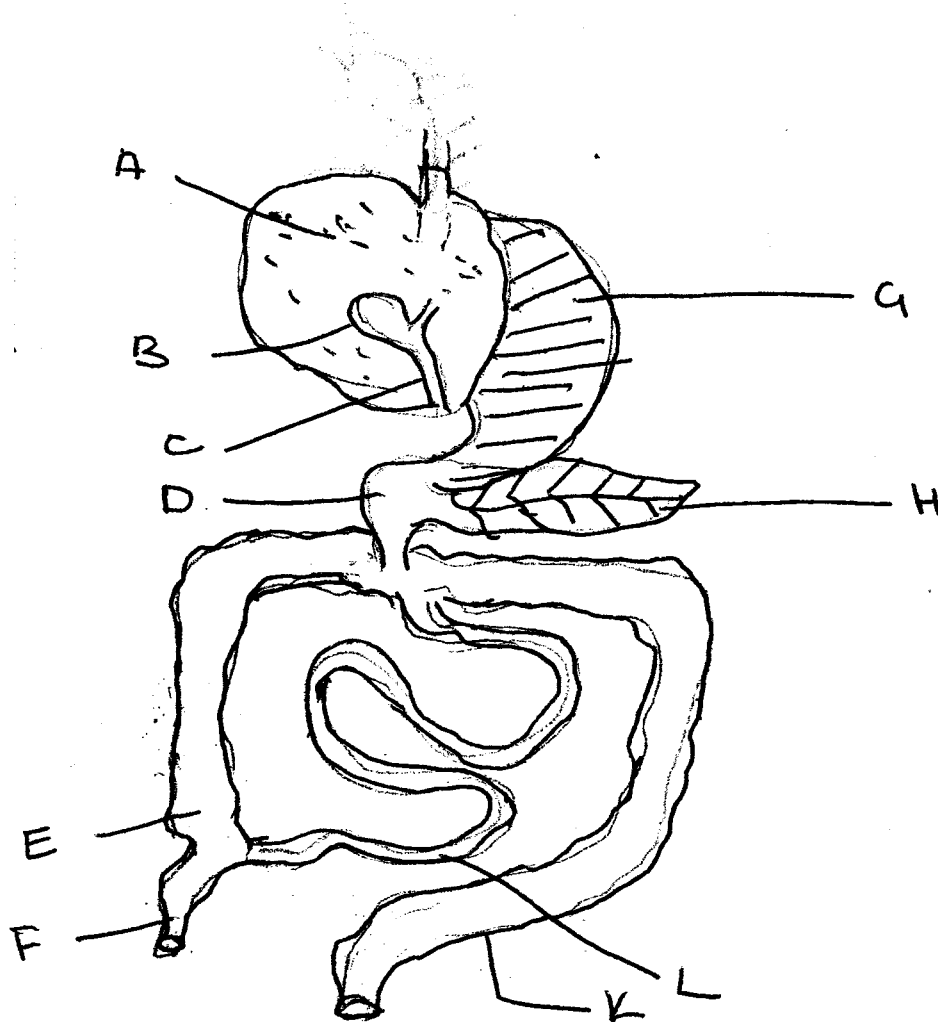
ii)(a) Identify the mode of feeding carried out by the animal with this dental formula.

(1mk)

b) Give a reason for your answer in ii(a)

(2mks)

2. Study the diagram below of a simplified digestive system in Man. Quote the letter which describe each of the following.



i) The site where protein digestion ends \_\_\_\_\_ (1mk)

ii) The site where fat digestion begins \_\_\_\_\_ (1mk)

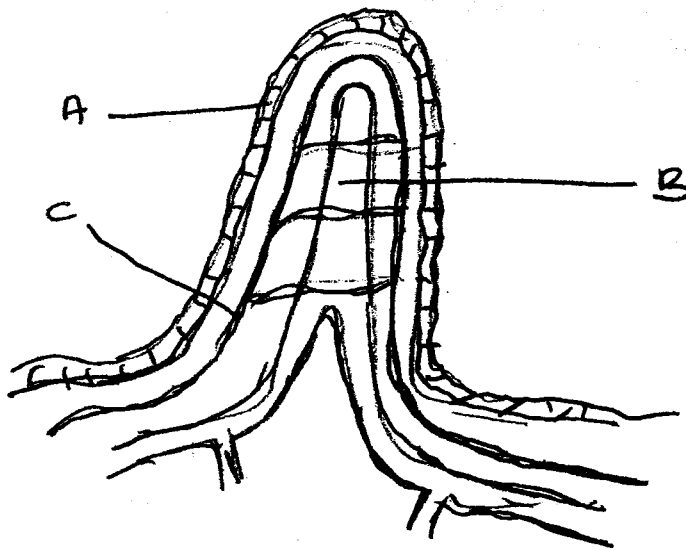
iii) The main region of water absorption. \_\_\_\_\_ (1mk)

iv) The digestive juice produced by structure A and state its function.

a) Juice \_\_\_\_\_ (1mk)

b) Function \_\_\_\_\_ (2mks)

3. The diagram below show the villi of the mammalian ileum.



i) Name the parts labeled.

(3mks)

A

B

C

ii) State the functions of each of the part marked.

(4mks)

B

C

iii) Name one digestive product that can be found in each of the part.

(2mks)

B

C

iv) State 5 adaptations in which the villi is adapted to its function.

(10mks)

i)

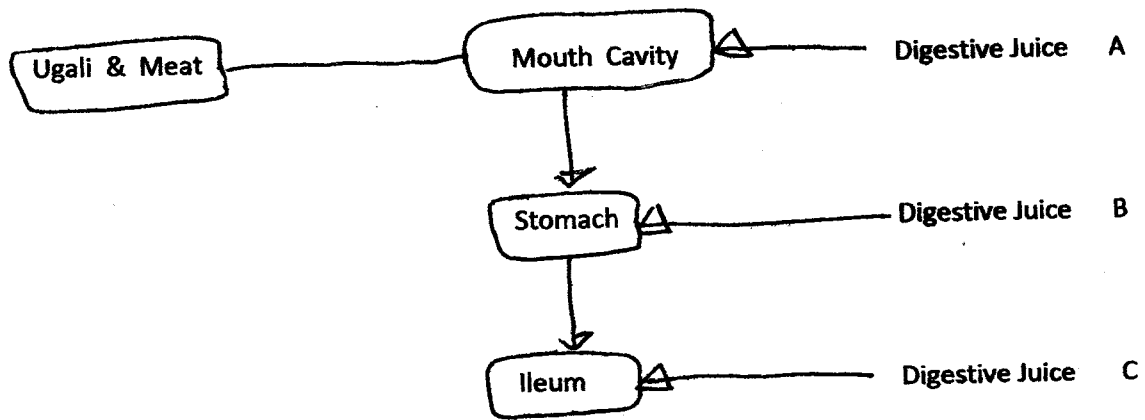
ii)

iii)

iv)

v)

4. Study the diagram below which represent passage of a meal through human digestive system.



i) Name the physical process that will occur to the meal in mouth cavity.

(2mks)

ii) Name each of the digestive juice labeled.

(3mks)

A

B

C

iii) Name the hormone that stimulate the secretion of digestive juice B

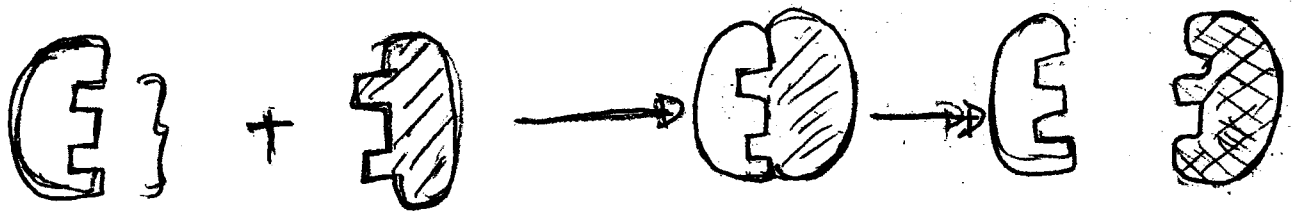
(1mk)

iv) State 2 roles of digestive juice A

(4mks)

i)

7. The diagram below show reaction of an enzyme



a) State 2 properties of enzyme illustrated in the diagram.

(4mks)

i)

ii)

c) Name 2 protein digesting enzyme in Man.

(2mks)

i)

ii)

(d) Give 2 importances of roughage in a diet

i)

ii)

XX

ii)

v) State 2 functions of hydrochloric acid secreted by gastric glands in alimentary canal. (4mks)

i)

ii)

Name 2 types of food substances in a balanced diet that do not undergo digestion. (2mks)

i)

ii)

State 2 functions of large intestines in Man. (4mks)

i)

ii)

5. Explain why enzyme trypsin is produced along alimentary canal as trypsinogen. (4mks)

6. List 4 components of pancreatic juice. (8mks)

i)

ii)

iii)

iv)