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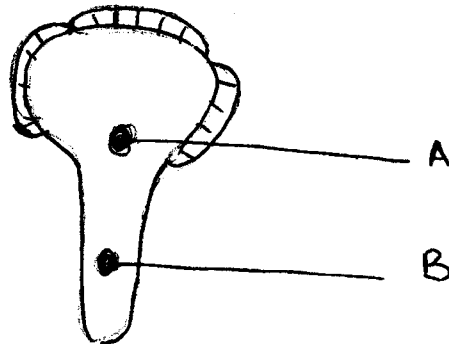
GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.
FORM 3 BIOLOGY MID TERM EXAMINATION. TERM 3 2015.

Answer all the questions.

1. State four characteristics of fruits dispersed by animals. (4mks)
 - i)
 - ii)
 - iii)
 - iv)

2. Distinguish between protendry and protogyny. (2mks)

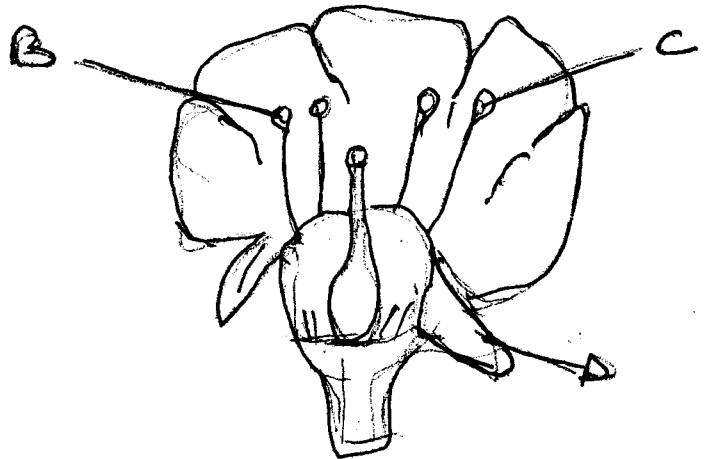
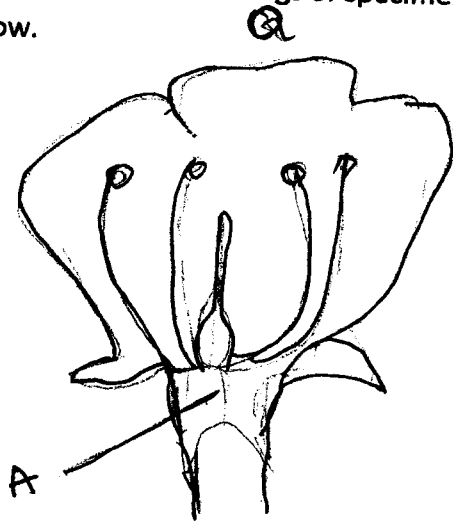
b) Below is a structure of a pollen grain. Study it and answer the questions that follow.



- i) State the functions of the structures you have named in b(i) above (2mks)

- b) Name the parts of the flower that are responsible for production of gametes (2mks)
 - i)
 - ii)

3. Below are drawings of specimen from plants. Study them and answer the question that follow.



i) What is the role of specimen to the plants.

(2mks)

ii) Name the parts labeled

(4mks)

A

B

C

D

iii) Give the name used to describe the ovary.

i) In flower Q

(2mks)

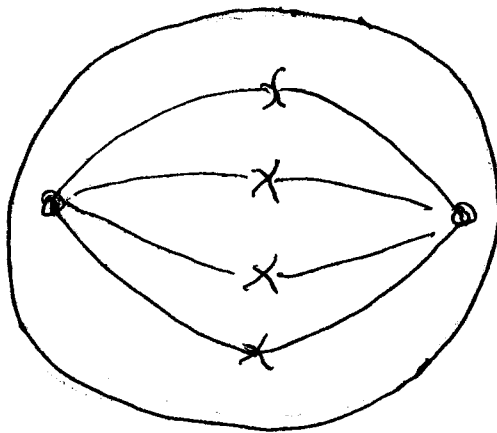
ii) In flower R

(2mks)

With a reason state the class of plants from which the specimen R was obtained.
Class _____ (2mks)

Reasons _____ (2mks)

4. The diagram below show a stage in Mitosis



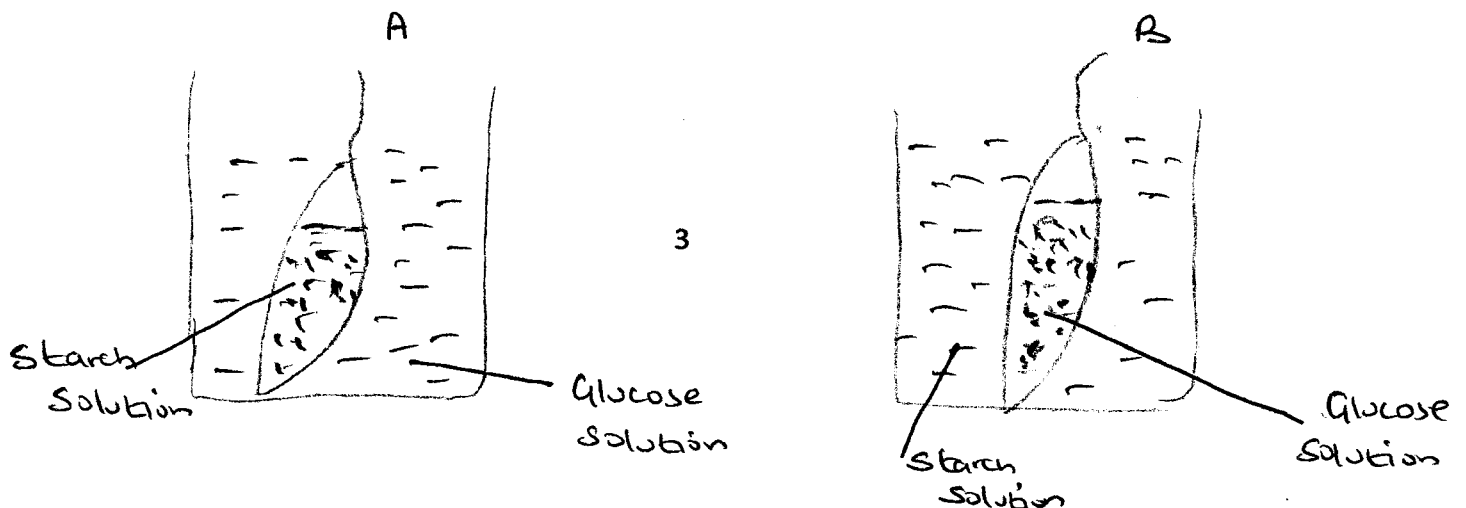
i) Identify the phase _____

(1mk)

ii) Give a reason for your answer.

(2mks)

5. The following expt was set up by a form one class. After an hour, the contents of the visking & beaker were tested using iodine solution and benedicts solution.



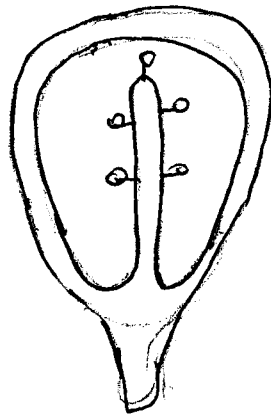
(i) Record in the table below the expected observations after the contents in set up A and B were tested using iodine solution and benedicts solution. (8mks)

Set up	Visking tubing		Beaker	
	Iodine Solution	Benedicts Solution	Iodine Solution	Benedicts Solution
A				
B				

6(i) Define the term placentation. (2mks)

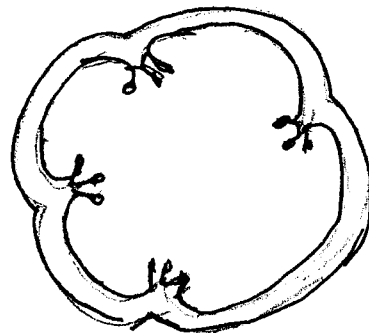
ii) Identify the different types of placentation shown below.

(a)



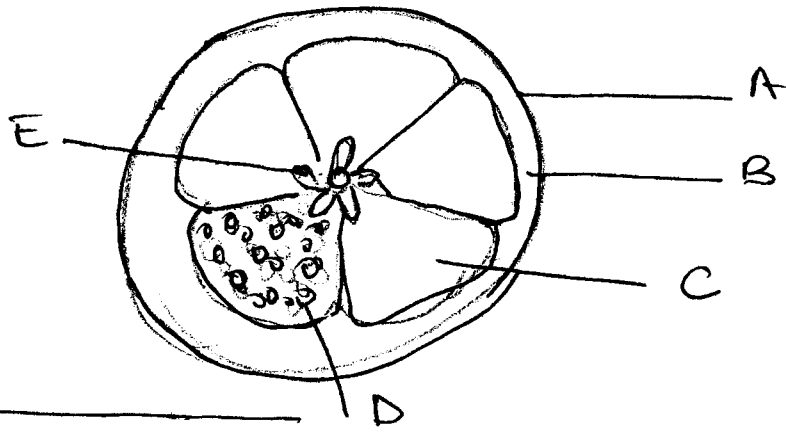
Type of placentation

(b)



Type of placentation

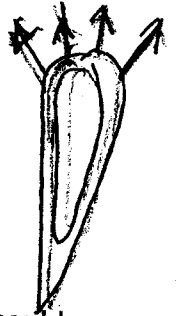
iii) Below is a simplified T.S of an orange, label parts A – E



- A _____
- B _____
- C _____
- D _____
- E _____

(5mks)

7. Observe the following diagram of a fruit.



i) Suggest the possible agent of dispersal of the fruit.

(2mks)

ii) Identify features that adapt it to the agent of dispersal.

(2mks)

8. A group of students carried out a study of the population growth of flour weevils. They put 16 grams of maize flour into 2 equal boxes K and L respectively. They then introduced equal number of weevils into the boxes. The boxes were kept under similar environmental conditions. The weevil were counted at interval and the results recorded in the table below.

days	K	L
0	20	20
5	20	20
40	200	300
60	550	800
80	560	1300
100	650	1750
120	640	1750
135	650	1740
150	645	1748

Using a suitable scale, draw two graph on the same axes from the results in the table. (8mks)

ii) What were the approximate number of weevils present in the two boxes on the 70th day.

Number in K _____ (2mks)

Number in L _____ (2mks)

C(i) On what day was the population of weevils in K, 580 (2mks)

ii) Between which days was the population difference greatest. (1mk)

