

**PANGANI GIRLS SCHOOL
BIOLOGY DEPARTMENT**

Name Class Class No.

**PAPER 3
BIOLOGY
PRE MOCK
MARCH, 2013
PRACTICAL
TIME – 1 ¾ HRS.**

INSTRUCTIONS.

Answer ALL the questions.

You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.

Answers must be written in the spaces provided in the question paper.

Additional pages must not be inserted.

Candidates may be penalized for recording irrelevant information and for incorrect spelling especially for technical terms.

FOR EXAMINER'S USE ONLY.

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1	14	
2	12	
3	14	
Total Score	40	

Q.1 You are provided with a specimen labeled Q.

a. Make a transverse section of the specimen and draw a well labeled diagram of the section. (4mks)

b. What type of a fruit is specimen Q. (1mk)

c. Name the type of placentation of the above specimen. (1mk)

d. Slice off about 2cm thick disc from that specimen and peel it. Using a mortar and pestle grind it into a paste and add 20ml distilled water. Tie one of a visking tubing and tie the end tightly.

NB: Ensure that there is no leakage on both ends.

Rinse the outside of the tubing with distilled water. Immerse the tubing with contents into 50ml beaker containing iodine solution. Allow to stand for 20 minutes.

i. Record your observations in the table below.

	Extract inside the tubing	Iodine solution in the tubing
Before experiment		
After experiment		

(4mks)

ii. Account for the results obtained from (i) above inside the tubing

(2mks)

Outside the tubing

(2mks)

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Q.2. You are provided with a sample of food labeled Y in a solution form, solution K (iodine solution), solution J (Benedict's solution) Solution K (DCPIP) and solution N (Biuret's reagents). Carry out tests on the food sample to identify the food substances present. (12mks)

Food tested	Procedure	Observation	Conclusion
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Q.3 Study the photograph of specimens labeled S1 and S2 obtained from plants undergoing certain biological process.

a. Name the biological process represented in the photograph S1 and S2. (1mk)

b. How does the process you have named above differ in photograph S1 and S2. (2mks)

S1	S2

c. State two internal conditions for above named biological process. (2mks)

d. Name the part labeled X and Y. (2mks)

X -

Y -

e. State the functions of the structure labeled M, N and P. (3mks)

M -

N -

P -

f.i. Using the roots and leaves, name the classes of specimen S1 and

S2.

S1

S2

ii. Give reasons for your answers in d (i) above. (2mks)

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