MASENO SCHOOL

JULY/AUGUST MOCK - 2024

231/3 BIOLOGY Paper 3 (Practical)



Name.	Index Number
Class	Signature
	INSTRUCTIONS TO CANDIDATES MASEN Write your name and index number in the spaces provided at the top of this page.
(i)	Write your name and index number in the spaces provided at the top of this page.
(ii)	Answer all questions.
(iii)	You are required to spend the first 15 minutes of the 1 3/4 hours allowed for this paper reading the whole
	paper carefully before commencing your work.
(iv)	Answers must be written in the spaces provided in the question paper. Additional pages must not be
	inserted.
(v)	The paper consists of 7 printed pages.
(vi)	Candidates should check to ascertain that all the pages are printed as indicated and that no questions are
	missing
(vii)	Candidates MUST answer the questions in English
(viii)	Candidate may be penalized for recording irrelevant information and for incorrect spelling especially
	of technical terms
IV 1	
<u>For l</u>	Examiners Use Only
	Question Maximum Score Candidate's Score
	SHALL WIN THROUGH
	1 14
	13
	011
	3 N 3 S V M3 V 7 0 7 N 3 S V M3 V 7 N 3 S V M3 V 7 0 7 N 3 S V M3 V 7 0 7 N 3 S V M3 V 7 N 3 S V M3 V 7 0 7 N 3 S V M3 V 7 0 7 N 3 S V M3 V 7 N 3
	Total score 40

Yοι	are provided with the following;				
	• Solution labeled R				
	• 0.1% sodium chloride solution				
	Benedict's solution				
	• Iodine solution				
	• Solution K				
	• White tile				
	One boiling tube				
	Test-tube holder				
	 Test-tube holder Place two drops of solution R on 	a white tile	and add two dro	ops of iodine sol	ution. Record yo
		a white tile	and add two dro	ops of iodine sol	ution. Record yo
	Place two drops of solution R on	a white tile	and add two dro	ops of iodine sol	
	Place two drops of solution R on observation and conclusion	a white tile		ops of iodine sol	
	Place two drops of solution R on observation and conclusion	a white tile		ops of iodine sol	
	Place two drops of solution R on observation and conclusion	a white tile		ops of iodine sol	
a)	Place two drops of solution R on observation and conclusion		Conclusion		(2 marks)
a)	Place two drops of solution R on observation and conclusion Observation	oiling-tube. A	Conclusion dd two drops of	iodine solution f	(2 marks)
a)	Place two drops of solution R on observation and conclusion Observation Place 2.0 ml of solution R into a b	oiling-tube. A	Conclusion dd two drops of oride solution. Pl	iodine solution f	(2 marks) Collowed by 2.0 min a water bath
a)	Place two drops of solution R on observation and conclusion Observation Place 2.0 ml of solution R into a b of solution K and one drop of 0.19	oiling-tube. A 6 sodium chlo es. Observe an	Conclusion dd two drops of oride solution. Pl	iodine solution f	(2 marks) Collowed by 2.0 min a water bath





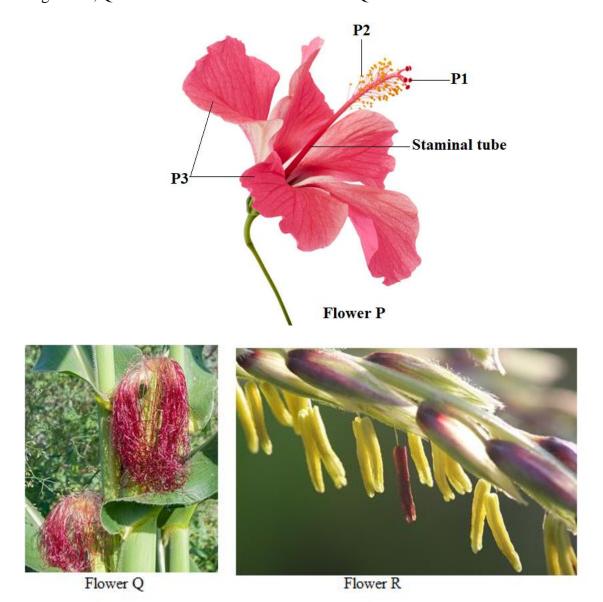
Poi	ling tube content	Observation	Conclusion	
DOI	ling -tube content	Observation	Conclusion	
			1	
Acco	ount for your observation	on in 1(b) and 1(c)		
i)	1 (b)			(3 marks)
ii)	1(c)			(2 marks)

State the role of sodium chloride in the experiment	(1 mark)	
	• • • • • • • • • • • • • • • • • • • •	





2. The diagrams P, Q and R below shows flowers. Flowers Q and R were obtained from the same plant.



a) With reasons based on observable features only, identify the agents of pollination of the flowers P, R and Q (4 marks)

Flower	Agent	Reason
P		
Q and R		



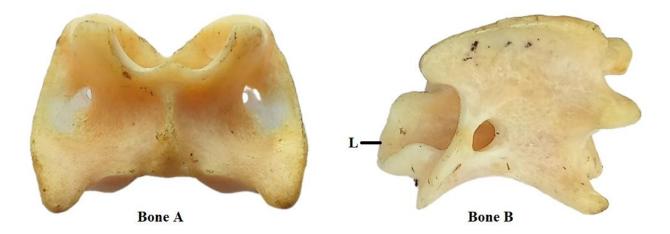


b)	Identify the parts labeled P1 and P2 in flower P	
	P1	(1 mark)
	P2	(1 mark)
c)	Give a reason why self-pollination and self-fertilization should be discouraged	in plants
		(1 mark)
d)	Give two observable features that hinder self-pollination and self-fertilization is	in flower P
		(2 marks)
e)	Identify the class to which the plant from which flower P was obtained belongs.	Give a reason for your
	answer	
	i) Class	(1 mark)
	ii) Reason	(1 mark)
f)	Give the difference in size and texture of pollen grains produced by flowers P	and R (2 marks)
1)	P R	(2 marks)
	Size	
	Texture	





3. The photographs below show bones obtained from the same animal. Examine them



a) Identify the bones A and B

	A	(1 mark)
	В	(1 mark)
b)	Name the region of the body where the above bones were obtained	(1 mark)
c)	Give two reasons for your answer in (b) above	(2 marks)
d)	Explain the role of part marked L in bone B	(3 marks)





e)	State two differences between bones A and B	(1 mark)
f)	Name the bone that precedes bone A in axial skeleton	(1 mark)
g)	Explain the role of the above bones in respiration	(2 marks)

THIS IS THE LAST PRINTED PAGE



