SUNSHINE SECONDARY SCHOOL MOCK 2015

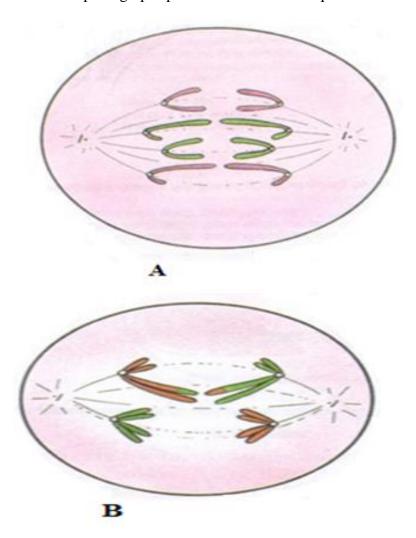
BIOLOGY PAPER 3

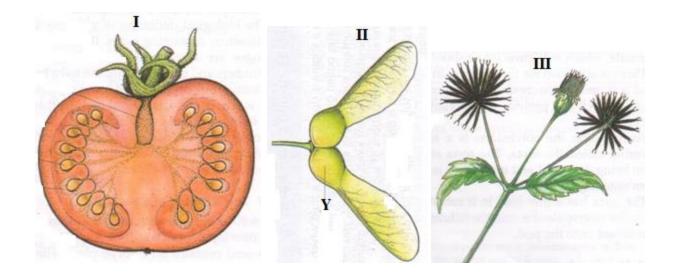
1. You are provided with specimen S . Study the specimen carefully then answer question follow.	ns that
a) Make a drawing of specimen ${f S}$ and label midrib, leaf lamina, leaf margin, and leaf per	tiole. (3mk)
b) Name the class to which the specimen belongs.	(1mk)
c) Identify two features of the specimen S that may have been used to place it in the class	
(b) above.	
d) Using observable features only, explain how the specimen S is adapted to its photosyl function.	
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2. Use the photographs provided to answer the questions that follow:





a) (i) Identify the type of cell division represented in the photographs ${\bf A}$ and ${\bf B}$.	(2mk
A	
В	• • • • • • • • • • • • • • • • • • • •
(ii) With a reason, name the stage of cell division represented in each case.	(4mk)
A	
Reason	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
В	
Reason	
	•••••
(iii) Name the parts of human body where the process ${\bf B}$ represented above occur.	(2mk
b) (i) What type of fruit is represented by photograph I? Give two reasons.	(3mk)
Type	
Reasons	
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(ii) Name the agent of dispersal for fruits II and III.	(2mk)
II	• • • • • • • • • • • • • • • • • • • •
III	
(iii) How are the fruits adapted for the mode of dispersal stated in (b)(ii) above?	(2mk)
II	
III	
(iv) Identify the type of placentation shown by photograph I.	(1mk)
3. You are provided with specimens labeled L and M . Study them then answer questions to follow:	
a) Identify the specimens.	(2mk)
L	
M	• • • • • • • • • • • • • • • • • • • •
b) Name the part of the body where each is found.	(2mk)
L	
M	
c) With which bone does the vertebra L articulate, other than those of the vertebral column	n? (1mk)
d) Using observable features only, state two adaptations of the specimen \mathbf{M} to its function	s. (2mk)

e) Observe the specimen L from the anterior view. Name the parts of the vertebra that ar	re most
pronounced.	(3mk)
f) Name the cartilaginous pad found between two adjacent vertebrae and state its function	n. (2mk)
Name	
Function	