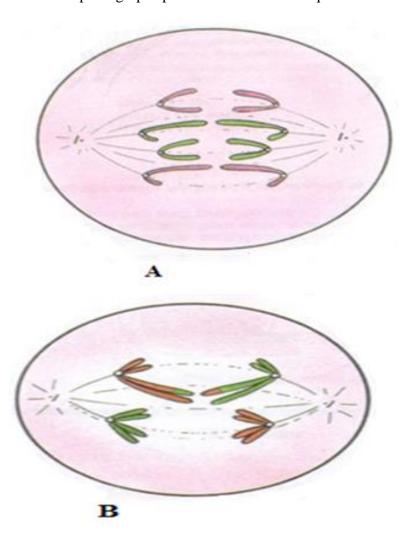
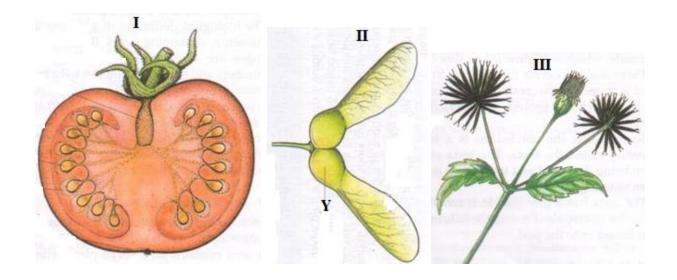
SUNSHINE SECONDARY SCHOOL MOCK 2019 BIOLOGY PAPER 3

1. You are provided with specimen S . Study the specimen carefully then answer questions that follow.
a) Make a drawing of specimen S and label midrib, leaf lamina, leaf margin, and leaf petiole. (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 named in
(b) above. (2mk)
d) Using observable features only, explain how the specimen $\bf S$ is adapted to its photosynthetic function. (6mk)

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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	

(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)
(iv) ruentry the type of placemation shown by photograph 1.	, ,
3. You are provided with specimens labeled L and M . Study them then answer question 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 ${f L}$ articulate, other than those of the vertebral colu	ımn? (1mk)
d) Using observable features only, state two adaptations of the specimen ${\bf M}$ to its functi	ons. (2mk)

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