



HILLCREST HIGH SCHOOL

LIFE SCIENCES

GRADE 10

PRACTICAL EXAM PAPER 3

TIME: 1HR

MARKS: 60

Question 1

1.1 Use the equipment which has been set out for you and make a wet mount. Once you have completed your mount you need to show it to your teacher for assessment. (10)

FINAL MARK:

1.2 Name the 3 pieces of equipment that have been labeled

A _____

B _____

C _____

(3)

1.3 Why is it necessary to stain the specimen? _____

----- (2)

Question 2

2.1 Study the microscope. Name the labeled parts and give one function for each part:

PART	FUNCTION
A	
B	
C	
D	
E	

(10)

2.2 Study the projected micrographs of plant and animal tissues.

Write down each of the following tissues which you have identified.

- A _____
- B _____
- C _____
- D _____
- E _____ (5)

MOVE TO NEXT LAB FOR QUESTION 3 AND 4

Question 3

3.1 Study the micrograph and answer the questions that follow:

3.1.1 Give a full heading for this micrograph

_____ (2)

3.1.2 Give 3 reasons for your answer in 3.1.1

_____ (3)

3.2 Draw a fully labeled diagram of the organelle in this micrograph.

Remember your drawing rules for Life Sciences. Use the space provided on the next page. (10)

Question 4

4.1 Study the skeleton and name all the bones that make up the pectoral girdle.

(7)

4.2 Study the leaf

4.2.1 Is it a dicotyledonous or monocotyledonous leaf? _____

_____ (1)

4.2.2 Give one reason for your answer in 4.2.1. _____

_____ (2)

4.2.3 Study the experiment in front of you. Name the process which is taking place in this experiment.

_____ (1)

4.2.4 Write the full definition for this process. _____

_____ (2)

4.2.5 In which direction will the water in the hollow area of the potato move. Give a reason for your answer. _____

_____ (2)

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