



JOINT UNIVERSITIES PRELIMINARY EXAMINATIONS BOARD
JUNE 2020 EXAMINATIONS

JUPEB/003P

BIOLOGY PRACTICAL SCI-J152 TIME ALLOWED: 2½ hours

Answer ALL questions.

Turn Over

Answer ALL Questions.

Question 1

a. You have been provided with two (2) samples labelled specimen N and specimen K. Use iodine, Benedict's solution, Fehling's solution A and B to test the samples for:

(i.) Starch [3 Marks]

(ii.) Reducing sugar [3 Marks]

Record your findings for (i) and (ii) in a tabular form.

b (i.) Add four drops of Millon's reagent to 5ml of specimen J in a test-tube and heat. [2 Marks]

(ii.) Add 10 drops of specimen K to 5ml of Benedict's solution and boil for 2 minutes. Allow the mixture to cool. Report your findings using the format shown below. [2 Marks]

SPECIMEN	TEST	OBSERVATION	INFERENCE
J			
K			

Question 2

You have been provided with the specimens P, Q, R and S.

a. Identify specimens P, Q, R and S stating their Genus without reasons. [1 Mark]

b. What classes do specimens P, Q, R, and S belong? [1 Mark]

c. Construct a food chain using specimens P, Q, R and S. [1 Mark]

d. What is the trophic level of specimen R? [1 Mark]

e. State four (4) adaptive features of specimen P. [1 Mark]

f. What are the four (4) observable (external) differences between specimens R and S? [2 Marks]

g. Draw a labeled diagram of the lateral view of specimen R. [3 Marks]