THE SUCCESS PATH EXAMINATION COUNCIL (SPEC)

Paving the Way to Success

231/3 BIOLOGY (Practical)

PRE-MOCK EXAMINATIONS 2026

MARCH 2026

Time: 1¾ **hours**

Paper 3

231/3
4992104

Name …… Admission Number ……..…

School ……Class ……

Candidate's Signature …… Date ……

Instructions to Candidates

(a) Write the name and admission number in the spaces provided above.
(b) Write the name of the school, class, date and sign in the spaces provided above.
(c) Answer **all** the questions in the spaces provided.
(d) You are required to spend the first 1 minutes of the 1¾ hours allowed for this paper reading the whole paper carefully before commencing your work.
(e) Addition pages must **not** be inserted.
(f) This paper consists of 6 printed pages.
(g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
(h) Candidates should answer all the questions in English.

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	14	
2	15	
3	11	
Total Score	40	

1. Take 2 clean test tubes and into each add 5cm^3 of dilute hydrogen peroxide. Label the test tubes as ***A*** and ***B***. Cut 2 cubes of Irish potato measuring about 1cm^3 each. Boil one cube in a boiling tube with some water for about 5 minutes. Drop the boiled cube into test tube ***A*** and unboiled cube into test tube ***B***.

State your observations.

(a) Test tube **A** (1mark)

……

……

Test tube **B** (1mark)

……

……

(b) ***Account for*** your observations in:

Test tube **A** (2marks)

……

……

Test tube **B** (2marks)

……

……

(c) Take a small amount of substance ***Z*** provided and add to it 2cm^3 of sodium hydrogen carbonate.

(i) ***State*** your observations (1mark)

……

……

(ii) ***Which process*** in the body is illustrated above? (1mark)

……

……

(iii) ***State*** the part of the body where the process takes place. (1mark)

……

……

(iv) ***What*** is the significance of the process? (1mark)

……

……..

(d) Put 2cm^3 of liquid labelled as ***C*** into a test tube. Squeeze some juice from specimen ***X*** into a beaker. Draw some of the juice into a dropper. Add 3 drops of the juice into the test tube with solution ***C***.

(i) State your observation. (1mark)

……

……

…….

(ii) ***State*** the part of the human body where the process demonstrated above occurs and the enzyme that carries out the process.

Part of body (1mark)

……

……..

Enzyme (1mark)

……

……..

(iii) ***Which*** gland produces the enzyme stated in (ii) above? (1mark)

……

……

(iv) ***Which*** hormone stimulates the production of the enzyme stated in (ii) above (1mark)

……

……

2. Study the photographs shown below then answer the questions.

(a) Suggest the identity of substance labeled **P** on **S1**. (1mark)

……

……

(b) State the mode of nutrition of **R1** and **S1** and for each case give a reason for your answer.

R1

Mode of nutrition…….. (1mark)

Reason for mode of nutrition (1mark)

……

……

S1

Mode of nutrition…… (1mark)

Reason for mode of nutrition (1mark)

……

……

(e) Name parts labeled **S2** and **T**.

S2…… (1mark)

T……. (1mark)

(d) Name structures responsible for reproduction in **S1** …….…… (1mark)

(e) Explain the importance of organism **S1** in nature. (1mark)

……

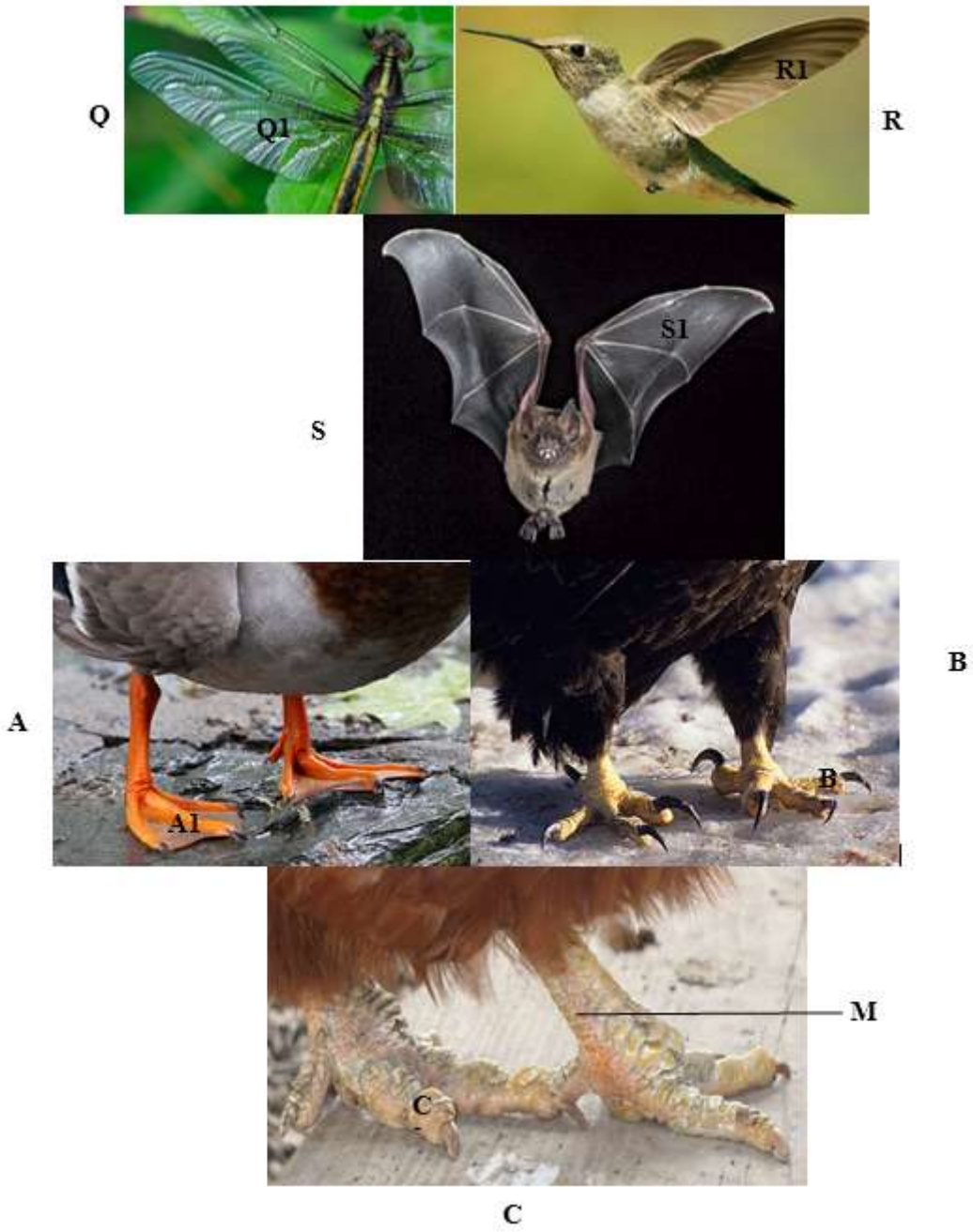
……

(f) Name generations **M** and **N**

M…… (1mark)

N…… (1mark)

3. Study photographs shown below then answer the questions.



(a) ***State*** the type of evolution represented by structures Q_1, R_1 and S_1. (1mark)

……

……

(b) ***Explain*** the type of evolution identified in (a) above. (1mark)

……

……

(c) ***Give*** the evolution term used to describe structures:

(i) **Q_1, R_1** and**S_1.** (1mark)

……

……

(ii) **A_1**, **B_1** and **C_1.** (1mark)

……

……

(d) ***What*** type of evolution is illustrated by the limbs (**A1**, **B1** and **C1**)? (1mark)

……

……

(e) (i) ***Name*** class for each **Q, R** and **S.**

Q …… (1mark)

R …… (1mark)

S …… (1mark)

(ii) ***Give two*** observable reasons for your answer for class **S.** (2 marks)

……

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(f) (i) ***Suggest*** the diet of animal **B** and **R**.

B…… (1mark)

R…… (1mark)

(ii) How is beak of animal **B** adapted to its function? (2marks)

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