

SULIT



First Semester Examination
2022/2023 Academic Session

February 2023

**BZT402 – Biology of Vertebrate Pest Animals
(*Biologi Haiwan Vertebrata Perosak*)**

Duration : 2 hours
(Masa : 2 jam)

Please check that this examination paper consists of THREE (3) pages of printed material before you begin the examination.

[Sila pastikan bahawa kertas peperiksaan ini mengandungi TIGA (3) muka surat yang bercetak sebelum anda memulakan peperiksaan ini.]

Instructions : Answer **FOUR (4)** questions. **Section A is COMPULSORY**. Answer **THREE (3)** questions from Section B. Each question carries 25 marks.

Arahan : Jawab **EMPAT (4)** soalan. **Bahagian A WAJIB dijawab**. Jawab **TIGA (3)** soalan daripada Bahagian B. Tiap-tiap soalan bernilai 25 markah.]

In the event of any discrepancies, the English version shall be used.

[Sekiranya terdapat sebarang percanggahan pada soalan peperiksaan. versi Bahasa Inggeris hendaklah digunapakai].

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SULIT

SECTION A : (Compulsory)

[BAHAGIAN A: (Wajib)]

1. [a] Discuss the roles and responsibilities of public, government and non-government stakeholders involved in managing human-macaque interactions.

[Bincangkan peranan dan tanggungjawab orang awam, pihak kerajaan dan bukan kerajaan dalam menguruskan isu interaksi manusia-monyet.]

(10 marks / 10 markah)

- [b] What are the **TWO (2)** groups of anticoagulant rodenticides? Explain their toxicity mechanism by including a diagram.

*[Apakah **DUA (2)** kumpulan antikoagulan rodentisid? Jelaskan mekanisme ketoksikan dengan menggunakan gambar rajah.]*

(15 marks / 15 markah)

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SECTION B : Answer THREE (3) out of FOUR (4) questions.

[BAHAGIAN B: Jawab TIGA (3) dari EMPAT (4) soalan.]

2. Outline suitable approaches to reduce the frequency of bird strike incidents at airports.

[Rangkakan pendekatan yang sesuai untuk mengurangkan kekerapan insiden pelanggaran burung di lapangan terbang.]

(25 marks / 25 markah)

3. Outline the issues related to vertebrate pest animals. For each issue, give an example of a vertebrate.

[Rangkakan isu yang berkaitan dengan haiwan perosak. Untuk setiap isu, berikan contoh satu vertebrata.]

(25 marks / 25 markah)

4. Using a diagram, analyse the effect of rodenticide application on wildlife in an oil palm plantation close to a forest.

[Dengan menggunakan gambar rajah, berikan analisis kesan penggunaan rodentisid terhadap hidupan liar di ladang sawit yang berhampiran dengan hutan.]

(25 marks / 25 markah)

5. Outline an Integrated Pest Management program to prevent outbreaks of the Malayan Wood Rat, *Rattus tiomanicus* in replanting areas of oil palm plantations.

[Rangkakan program Kawalan Perosak Bersepadu untuk mencegah penularan Tikus Belukar Malaya, Rattus tiomanicus di kawasan ladang tanam semula kelapa sawit.]

(25 marks / 25 markah)