
UNIVERSITI SAINS MALAYSIA

First Semester Examination
2014/2015 Academic Session

December 2014 / January 2015

BZT 311/3 - Biology of Vertebrate Pest Animal
[Biologi Haiwan Perosak Vertebrata]

Duration : 3 hours
[Masa : 3 jam]

Please ensure that this examination paper contains THREE printed pages before you begin the examination.

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

Instructions: Answer **FIVE** (5) out of **SIX** (6) questions, in English or Bahasa Malaysia. Each question carries 20 marks.

[Arahan: Jawab **LIMA** (5) daripada **ENAM** (6) soalan yang diberikan dalam Bahasa Inggeris atau Bahasa Malaysia. Tiap-tiap soalan bernilai 20 markah.]

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

[Sekiranya terdapat sebarang percanggahan pada soalan peperiksaan, versi Bahasa Inggeris hendaklah diguna pakai].

- 2 -

1. Briefly explain the following topics :
[Terangkan secara ringkas tajuk berikut :]
 - [a] Integrated Pest Management (IPM).
[Pengurusan Bersepadu Haiwan Perosak.]

(10 marks / 10 markah)
 - [b] Cultural Control
[Kawalan Budaya.]

(10 marks / 10 markah)

2. By giving specific example explain the following topics :
[Dengan memberikan contoh spesifik jelaskan tajuk berikut :]
 - [a] Acute Poison
[Racun Akut]

(5 marks / 5 markah)
 - [b] Chronic Poison
[Racun kronik]

(5 marks / 5 markah)
 - [c] Fumigant
[Fumigan]

(5 marks / 5 markah)
 - [d] Repellent
[Repelan]

(5 marks / 5 markah)

3. In the airline industry, the presence of large number of birds at the airport and airbase can be very detrimental to aircraft. Explain ?
[Dalam industri penerbangan, kehadiran bilangan besar burung di lapangan terbang dan pengkalan udara boleh membahayakan kapal terbang. Jelaskan ?]

(20 marks / 20 markah)

- 3 -

4. In Malaysia, the oil palm plantation industry incurred yearly economic losses due to vertebrate pest. Explain the various types of vertebrate pests and their management.

[Di Malaysia, industri perladangan kelapa sawit mengalami kerugian ekonomi tahunan disebabkan oleh haiwan perosak vertebrata. Jelaskan tentang pelbagai jenis vertebrata perosak serta pengurusannya.]

(20 marks / 20 markah)

5. Discuss the biology and management on **ONE** (1) of the following rodent pest species.

*[Bincangkan biologi dan pengurusan **SATU** (1) spesies rodent perosak berikut.]*

[a] *Rattus argentiventer*

or / atau

[b] *Rattus tiomanicus*

(20 marks / 20 markah)

6. Discuss the biology and management on **ONE** (1) of the following bird pest species.

*[Bincangkan biologi dan pengurusan **SATU** (1) spesies burung perosak berikut.]*

[a] *Corvus splendens*

or / atau

[b] *Columba livia*

(20 marks / 20 markah)

