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ANGKA GILIRAN:

UNIVERSITI SAINS MALAYSIA

Second Semester Examination
Academic Session 2007/2008

*Peperiksaan Semester Kedua
Sidang Akademik 2007/2008*

April 2008

FEL 273/2 – Veterinary Pharmacy
FEL 273/2 – Farmasi Veterinar

Time : 2 hours
Masa : 2 jam

This paper contains **FIVE (5)** questions and **5** typed pages.

Answer **FOUR (4)** questions.

You may answer each question either in Bahasa Malaysia or in English.

You are not allowed to take this question paper out of the examination hall.

*Kertas ini mengandungi **LIMA (5)** soalan dan **5** muka surat yang bertaip.*

*Jawab **EMPAT (4)** soalan.*

Anda dibenarkan menjawab setiap soalan sama ada dalam Bahasa Malaysia atau Bahasa Inggeris.

Anda tidak dibenarkan membawa keluar kertas soalan ini dari dewan peperiksaan.

- I. (A) Define
- (i) enzootic disease.
 - (ii) toxoid.
- (4 marks)
- (B) Write short notes on
- (i) chronic inflammation in animals.
 - (ii) acids and alkalis as disinfectants in animal farming.
- (7 marks)
- (7 marks)
- (C) Explain how foot and mouth disease spreads and how to control it.
- (7 marks)
- I. (A) *Takrifkan*
- (i) *penyakit enzootik.*
 - (ii) *toxoid.*
- (4 markah)
- (B) *Tuliskan nota ringkas tentang*
- (i) *inflamasi kronik pada haiwan.*
 - (ii) *asid dan alkali sebagai disinfektan dalam penternakan haiwan.*
- (7 markah)
- (7 markah)
- (C) *Terangkan bagaimana penyakit kuku dan mulut tersebar dan cara mengawalinya.*
- (7 markah)
- II. (A) Describe the etiology, pathogenesis, therapeutic plan and prevention of
- (i) cutaneous myiasis in dogs and sheep.
 - (ii) salmonellosis in all species of animals.
- (9 marks)
- (12 marks)

- (B) Describe how prolonged-release formulation of methoxyprogesterone acetate could be used to induce batch lambing (ewes deliver lambs at the same time in one batch)
(4 marks)
- II. (A) *Terangkan etiologi, patogenesis, pelan terapeutik dan pencegahan*
- (i) *miasis kulit pada anjing dan biri-biri.*
(9 markah)
- (ii) *salmonellosis pada semua spesis haiwan.*
(12 markah)
- (B) *Terangkan cara formulasi pelepasan berpanjangan metoksiprogesteron asetat digunakan bagi mengaruh ibu-ibu kambing melahirkan anak serentak.*
(4 markah)
- III. (A) Describe the pathophysiology, symptoms and treatment of milk fever (hypocalcaemia) in cows.
(7 marks)
- (B) Describe the effects of copper deficiency and excess of copper on cattle, sheep and pigs.
(8 marks)
- (C) Describe therapeutic usages, mechanism of action, pharmacokinetic and toxicity of ivermectin.
(10 marks)
- III. (A) *Terangkan patofisiologi, simptom dan rawatan penyakit demam susu hipokalsemia pada ibu lembu.*
(7 markah)
- (B) *Terangkan kesan kekurangan dan kelebihan tembaga ke atas lembu, biri-biri dan khinzir.*
(8 markah)
- (C) *Terangkan kegunaan terapeutik, mekanisme tindakan, farmakokinetik dan ketoksikan ivermektin.*
(10 markah)

- IV. (A) Define pesticide.
- (B) What are the characteristics of an ideal pesticide?
- (C) Explain briefly mechanisms of action of pesticides.
- (D) Using a schematic diagram of a nerve cell, indicate the sites of action of pesticides.

(25 marks)

- IV. (A) *Takrifkan racun makhluk perosak.*
- (B) *Apakah ciri-ciri racun makhluk perosak yang unggul?*
- (C) *Terangkan secara ringkas mekanisme-mekanisme tindakan racun makhluk perosak.*
- (D) *Dengan menggunakan gambar rajah skema, tunjukkan tapak-tapak tindakan racun makhluk perosak.*

(25 markah)

- V. (A) (i) Give **ONE (1)** example of immunosuppressive disease in poultry.
- (ii) Give **ONE (1)** example of systemic disease in poultry.
- (iii) Give **ONE (1)** example of enteric disease in poultry.
- (iv) Give **TWO (2)** examples of respiratory diseases in poultry.
- (v) What is a live vaccine?
- (vi) What is a killed vaccine?
- (B) Write short notes on
- (i) organic acids
- (ii) monensin

(25 marks)

- V. (A) (i) Berikan **SATU (1)** contoh penyakit immunosupresif pada ayam ternakan.
- (ii) Berikan **SATU (1)** contoh penyakit sistemik pada ayam ternakan.
- (iii) Berikan **SATU (1)** contoh penyakit enterik pada ayam ternakan.
- (iv) Berikan **DUA (2)** contoh penyakit pernafasan pada ayam ternakan.
- (v) Apakah vaksin hidup?
- (vi) Apakah vaksin mati?
- (B) Tuliskan nota ringkas tentang
- (i) asid organik.
- (ii) monensin.

(25 markah)

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