

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION**

**ANHE 00135: ZONOSIS AND ONE HEALTH CONCEPT**

**STREAMS: CERT. ANHE Y2S1**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 11/12/2018**

**2.30 P.M. – 4.30 P.M.**

**INSTRUCTIONS:**

- **Answer all questions**

**SECTION A (40 MARKS)**

**QUESTION ONE**

Define the following terms

- Zoonosis
- Reservoir
- Vehicle
- Vector
- Carrier

**QUESTION TWO**

- State five factors that promote zoonotic infections/predisposing factors to zoonosis. (5 marks)
- Name any three categories people at risk of zoonotic diseases. (3 marks)

**QUESTION THREE**

- Name four classes of zoonotic disease based on maintenance cycle/mode of transmission. (4 marks)
- Name one zoonotic disease for each of the following classes of etiological agent. (6 marks)

- (i) Viral
- (ii) Bacterial
- (iii) Fungal
- (iv) Rickettsia
- (v) Protozoa
- (vi) Parasitic

#### QUESTION FOUR

- (a) (i) List the various etiological causes of brucellosis in man. (4 marks)
- (ii) Name the three 3 forms of anthrax in man. (3 marks)
- (b) State how people can get zoonotic diseases. (2 marks)
- (c) Define one health (3 marks)

#### SECTION B

- Answer any two questions in this section (30 marks)

#### QUESTION ONE

Discuss rift valley fever under the following sub heading

- (i) Etiology (2 marks)
- (ii) Three modes of transmission from animal to man. (3 marks)
- (iii) List any six clinical signs in man (6 marks)
- (iv) State any four control measures of the disease (4 marks)

#### QUESTION TWO

Anthrax is an acute disease of domestic and wild animals which cause sporadic cases in man.

- (i) State the etiology (1 mark)
- (ii) Explain how the disease is transmitted to man. (2 marks)
- (iii) Give three signs of anthrax in man
- (iv) Explain the following forms of anthrax in man
  - (a) Pulmonary form (wool sorters disease) (3 marks)
  - (b) Intestinal anthrax (2 marks)
- (v) Outline four methods of the controlling anthrax (4 marks)

#### QUESTION THREE

Rabies is an acute CNS disease of domestic animals and that usually result in death.

- (a) Describe the three methods of transmission. (3 marks)

- (b) Explain the public health importance (2 marks)
  - (c) List the three phrases of the disease. (3 marks)
  - (d) Incubation period is between 2-8 weeks but may vary from 10 days – 8 months or more. Name three factors that determine the length of incubation period. (3 marks)
  - (e) State any four clinical signs of rabies in man. (4 marks)
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