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University Examinations 2015/2016

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR IN ANIMAL HEALTH PRODUCTION

AAP 3201: VETERINARY ENTOMOLOGY AND VECTOR BIOLOGY

DATE: NOVEMBER 2015

TIME: 2 HOURS

INSTRUCTIONS: *Answer question **one** and any other **two** questions*

QUESTION ONE (30 MARKS)

- a) List the families of insects in the order Diptera (5 Marks)
- b) Describe the types of head orientation encountered in insects groups (5 Marks)
- c) List the part that makes the insects leg (5 Marks)
- d) Explain the insect excretory system in maintaining homeostasis (5 Marks)
- e) Define the word myiasis and name two insects that cause it and the animal species affected (5 Marks)
- f) Explain the mosquito life cycle and how it is responsible for Rift valley fever outbreaks (5 Marks)

(QUESTION TWO (20 MARKS))

- a) Describe the morphology of siphonaptera, name one insect in that order, diseases caused and explain one method of control (10 Marks)

- b) With the help of a diagram, show the structure and function of the female insect reproductive system (10 Marks)

QUESTION THREE (20 MARKS)

- a) Describe the structure and function of insect respiratory system (10 Marks)
- b) Explain why *Musca domestica* is excellent vector of wide range of diseases affecting both human and livestock (5 Marks)
- c) Explain the transmission of *Moraxella bovis* (5 Marks)

QUESTION FOUR (20 MARKS)

- a) Describe the taxonomy and morphology of tsetse fly and list the methods used in control (10 Marks)
- b) Name and explain the types of insect metamorphosis (10 Marks)