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University Examinations 2015/2016

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE ANIMAL HEALTH AND PRODUCTION

AAP 3101: VETERINARY EMBRYOLOGY AND HISTOLOGY

DATE: NOVEMBER 2015

TIME: 2 HOURS

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

QUESTION ONE (30 MARKS)

- a) Distinguish between growth and differentiation as is used in embryology (5 Marks)
- b) What is the significance of fertilisation? (5 Marks)
- c) List down 5 organs that originate from mesoderm (5 Marks)
- d) State the functions of epithelia tissue (5 Marks)
- e) Describe the histological structure of the liver in relation to its function (5 Marks)
- f) List the components that form the fluid connective tissue (5 Marks)

QUESTION TWO (20 MARKS)

- a) Describe the epithelium, connective tissue and the cells forming the testes of a bull (10 Marks)
- b) Explain the embryological development of the nervous system (10 Marks)

QUESTION THREE (20 MARKS)

- a) Distinguish between histology of the cardiac muscle and skeletal muscle (7 Marks)
- b) Describe the histology of the kidneys (6 Marks)

QUESTION FOUR (20 MARKS)

- a) Differentiate between histological structure of the rumen of bovine and the simple stomach of the pig (10 Marks)
- b) Describe gastrulation (5 Marks)
- c) What is freemartinism (5 Marks)