



**MERU UNIVERSITY COLLEGE
OF SCIENCE & TECHNOLOGY**

P.O. Box 972-60200 Meru - Kenya. Tel: 020-2092048, 020 2069349
Fax: 020-8027449

University Examinations 2011/2012

SECOND YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
AGRICULTURE

TEC 0252: FARM STRUCTURES AND FARM LAYOUT

DATE: DECEMBER 2011

TIME: 1½ HOURS

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

QUESTION ONE – (30 MARKS)

- (a) List five uses of fences. (5 Marks)
- (b) Name five ideal features of a good post and wire fence. (5 Marks)
- (c) Define the term hedges as used in fencing and list five problems related to them. (6 Marks)
- (d) Outline the purposes for dips and list four features of a convenient site for dips. (5 Marks)
- (e) Briefly explain the term “work study” as used in farm layout/ farm stead planning. (5 Marks)
- (f) List four factors considered in selecting the site of farm buildings. (4 Marks)

QUESTION TWO – (15 MARKS)

- (a) Name six types of fences. (3 Marks)
- (b) Mention and briefly explain four main components of a dip. (8 Marks)
- (c) Outline the purposes and features of crushes. (4 Marks)

QUESTION THREE – (15 MARKS)

- (a) Briefly discuss the purposes and types of spray races. (8 Marks)
- (b) With the aid of diagrams show the following types of livestock feeding structures:

- (i) Concrete feed troughs
- (ii) Tube feeders

(7 Marks)

QUESTION FOUR – (15 MARKS)

- (a) Briefly explain the maintenance of nursery beds. (9 Marks)
- (b) Outline three advantages and three disadvantages of silos. (6 Marks)

QUESTION FIVE – (15 MARKS)

- (a) Outline five reasons for which it is necessary that land/field sizes are known. (5 Marks)
- (b) Briefly explain the procedure for determining land areas for various land/field shapes. (4 Marks)
- (c) Discuss three types of construction materials which can be used for constructing farm structures/buildings. (6 Marks)