

FEDERAL UNIVERSITY OF TECHNOLOGY, OVERRI
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY
DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY
2015/2016 RAIN SEMESTER EXAMINATIONS

COURSE TITLE: PASTURE MANAGEMENT AND UTILIZATION

COURSE CODE: CST 504 (2 UNITS)

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER 5 QUESTIONS ONLY

SECTION A

1. (a) Discuss the nutritional needs of Buffel grass in Nigeria.
(b) Mention three legume species that can be combined with the above forage grass.
(c) Write out the correct botanical name of buffel grass.

2. (a) Discuss the basic features of *Digitaria smutsii* for its inclusion in pasture development in Nigeria.
(b) Explain why the dry matter yields of *D. smutsii* range from 2.5 to 8.0 tons/ha.
(c) How does the vegetation of Nigeria affect the production of *Andropogon gayanus*.

SECTION B

3. (a) Name seven (7) agro-ecological zones of Nigeria and in each of the zones, name three (3) pasture legumes that could be found.
(b) Discuss the significance of pasture and forage crops in livestock production in Nigeria.

4. Discuss briefly, the establishment and management of one pasture legume and one tree legume you have studied.

SECTION C

5. (a) Differentiate between 'Natural Pasture' and 'Established Pasture'.
(b) Mention and explain three (3) types of natural pasture.
(c) Give three (3) reasons why it is difficult to maintain the right proportion of legumes and grasses in pasture mixtures.

6. Discuss four (4) major attributes considered in choosing pasture to be established for profitable livestock industry in Nigeria.