

UNIVERSITY OF AGRICULTURE, ABEOKUTA
COLLEGE OF PLANT SCIENCE AND CROP PRODUCTION
DEPARTMENT OF HORTICULTURE

FIRST SEMESTER EXAMINATIONS (2009/2010 SESSION)

HRT 501: VEGETABLE CROPS PRODUCTION

INSTRUCTION: Answer Question 1 and any other Three. Time Allowed – 2 hrs

SECTION A

1. (a) Giving two examples in each case, classify vegetables according to;
(i) Season of production (ii) Length of cultivation period (iii) Economic part consumed
(iv) Climatic region of production (v) Growth habit.
(b) Giving appropriate examples, differentiate between indigenous and exotic vegetables.
(c) Indicate the botanical name and the family to which each of the following vegetables belongs:
(i) Onion (ii) Snake Tomato (iii) Jute Mallow
(iv) Water Leaf (v) West African Okra (vi) Carrot
(vii) Tomato (viii) Hot Pepper (ix) Garden Egg (x) Sweet Potato
(d) Distinguish between vegetable crops and other field crops.
2. (a) Explain why vegetable crops producers use raised beds during the rainy season and sunken beds during the dry season.
(b) Given the dimension of a tomato plot to be 12m x 5m and a spacing of 90cm x 40cm with one seedling per stand, calculate the optimum plant population per plot of 5m x 4m and per hectare.
(c) If Chief Nwosu requires 250g N.P.K. (20:10:10) fertilizer for a 10m x 10m plot of okra, calculate:
(i) Total amount of fertilizer required per hectare
(ii) Amount of each of N, P and K per hectare.
3. Briefly discuss the following environmental factors as they affect vegetable crops production and productivity, giving relevant examples;
(i) Temperature (ii) Rainfall (iii) Photoperiod
(iv) Soil type (v) Economic factor
4. (a) Discuss the principles of harvesting the following vegetable crops:
(i) Amaranthus (ii) Okra (iii) Pepper (iv) Tomato (v) Onion
(b) Highlight the methods of harvesting vegetables grown for (i) Fresh market and (ii) Seed production.
5. (a) Briefly discuss the production and management practices of a named vegetable crop.
(b) Write short notes on two of the following practices in vegetable production, giving relevant examples;
(i) Supplying (ii) Thinning (iii) Staking (iv) Mulching
6. a) With a map of Nigeria, show the geographical distribution of vegetable crops in Nigeria.
b) Highlight the factors responsible for the distribution shown.