UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE

ACH 405: VEGETABLE PRODUCTION 2: INDIGENOUS AND UNIQUE

DATE: APRIL 11, 2017   TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

a) Define the following terms

    i.   Indigenous vegetables   (1 Mark)

    ii.   Underutilized vegetables   (1 Mark)

    iii.   Bulb and root vegetables   (1 Mark)

b) Write short notes on the following

    i.   Benefits of post-harvest technology in vegetable production   (3 Marks)

    ii.   Management of root knot nematodes in *Solanaceae* family   (5 Marks)

    iii.   Management of thrips in cow pea   (5 Marks)

    iv.   Factors to consider when one wants to venture into mushroom production

        (4 Marks)

c) Assume you are a crop's production officer. Prepare a manual for training farmers on symptoms and farmer friendly strategies in control of powdery mildew in vegetables

        (5 Marks)

d) Discuss temperature and water requirements in cultivation of *Amaranthus* spp (5 Marks)

QUESTION TWO

Discuss traditional African vegetables production systems (20 Marks)

QUESTION THREE

a) Discuss the following in regard to spider plant

    i. Climatic conditions requirements (7 Marks)

    ii. Husbandry practices (5 Marks)

b) Assume that you have been invited to give a seminar on management of fruit flies in Asian cucurbits. Discuss any five farmer- friendly strategies that can be employed in the management of the insect pest (8 Marks)

QUESTION FOUR

a) Discuss why you would encourage farmers to grow bitter gourd (5 Marks)

b) Discuss the maturity indicators that farmers use in determining the time of harvesting in water melon (6 Marks)

c) Discuss any farmer friendly method of growing *cucurbitaceae* (9 Marks)

QUESTION FIVE

a) Assume that a farmer has come to consult you on how to grow mushrooms. In a farmer friendly language, explain to him how to go about it. (15 Marks)

b) Discuss the planting requirements in okra cultivation (5 Marks)

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