

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN HORTICULTURE**

HORT 441/442: TEMPERATE ZONE FRUITS

STREAMS: BSC (HORT) Y4S2

TIME: 2 HOURS

DAY/DATE: MONDAY 03/12/2018

2.30PM– 4.30 PM

INSTRUCTIONS:

- **Answer ALL Questions in Section A and any other Two Questions in Section B**
- **Do not mix the numbers when answering questions**

SECTION A (30 MARKS) – ANSWER ALL QUESTIONS

1. Briefly discuss the reasons for poor fruit set in temperate fruits. [6 marks]
2. Discuss temperate fruit industry under the following:
 - (i) Site selection [6 marks]
 - (ii) Crop improvement methods [5 marks]
3. Describe common methods of asexual propagation in temperate fruit tree nurseries. [8 marks]
4. Discuss how climate affects breaking dormancy in temperate fruit. [5 marks]

SECTION B (40 MARKS)- ANSWER TWO QUESTIONS

5. (a) Discuss ecological requirements for plum production (*Prunus salicina*). [10 marks]
- (b) Describe on symptoms and control measures of bacterial leaf spot in grapes. [10 marks]

6. Discuss the production of apples under the following;
- (i) Ecological requirements. [10 marks]
 - (ii) Importance of rootstock selection [10 marks]
7. (a) Discuss the factors to be considered when selecting a site for strawberry production. [10 marks]
- (b) Describe the symptoms and management strategies of Pear psylla in pears. [10 marks]
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