

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY

3^{RD} YEAR 2^{ND} SEMESTER 2018/2019 ACADEMIC YEAR REGULAR

COURSE CODE: AAS 3327

COURSE TITLE: APICULTURE AND SERICULTURE

EXAM VENUE: STREAM: BSc. (Food Security)

DATE: EXAM SESSION:

TIME:

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.
- 2. Candidates are advised not to write on question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A (30 MARKS)

Answer ALL questions in this section

 State three qualities of silk State four challenges encor 		of traditional logwood bee hive	(3marks)
_		-	(4marks) (3marks)
3. Briefly describe the bio-chemical composition of silk.			
4. Complete the following tal	ole:		(8marks)
Name of silk spinning sp.	Type of silk	Host plant	
1		mulberry	
2. A. panda			
3	_	acacia	
4	wild silk		
SECTI	ON B: (40 MARKS)		
Answer AN	Y TWO questions from thi	is section	
energy crisis in rural areas of	Kenya. conding and migration an	<i>mori</i>) rearing for providing soluted the mitigation measures again	(8marks)
c). Briefly explain the mode of transmision of pebrine infection in <i>B. Mori</i> .			(4marks)
7. a).Discuss why the design of beekeeping technology.	of the Langstroth bee hive	e offers a desirable and efficient	(7marks)
. b).Explain the meaning of the term value chain.			
c). Describe the sericulture value chain			(5marks)

- d). Explain the THREE special adaptations (WISDOM OF THE INSECT) of the mulberry silkworm, *B. mori*. (6marks)
- 9. a). Complete following Table- Diseases of the mulberry silkworm, *B. Mori.* (20marks)

Disease	Causal agents/symptoms	Prevention/control	Disinfectant and disinfection:
1. Pebrine			
2. Flacherie			
3.Grasserie			
4.Muscardine			