



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
SECOND YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES &
ANIMAL SCIENCES
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND
PRODUCTION**

**COURSE CODE: AHP 2203
COURSE TITLE: AQUACULTURE AND
APICULTURE**

DATE: 3RD DECEMBER, 2019

TIME: 0830 - 1130HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions are compulsory.

This paper consists of 2 printed pages. Please turn over

ANSWER ALL QUESTIONS

1. (a) Define the following terms:
 - i. Blue economy **(1 mark)**
 - ii. Propolis **(1 mark)**(b) State four (4) factors that cause hive absconding by bees and its control. **(8 marks)**
(c) Discuss the challenges of beekeeping enterprise and how to mitigate against them. **(10 marks)**
2. (a) Name any three bee species found in Kenya. **(3 marks)**
(b) Name three components of a bee suit and its use. **(3 marks)**
(b) Discuss briefly the characteristics of one of the bee species described in 2(a). **(5 marks)**
(c) Discuss the general management of the apiary. **(9 marks)**
3. (a) State the difference between the following terms:
 - (i) Blue economy and aquaculture **(2 marks)**
 - (ii) Brackish water and marine water **(2 marks)**(b) Describe the uses of seaweeds. **(4 marks)**
(c) What are the benefits of aquaculture to the nation? **(8 marks)**
(d) Describe briefly any two (2) risks associated with aquaculture. **(4 marks)**
4. (a) Discuss in detail two physical and two chemical aspects of water quality and explain how they affect fish production. **(10 marks)**
(b) Describe the factors to consider in the siting of a fish pond. **(10 marks)**
5. (a) State the difference between a fish fingerling and a fish fry. **(2 marks)**
(b) Discuss the production of the *Clarias gariepinus* under the following topics:
 - (i) Temperature tolerances **(3 marks)**
 - (ii) Reproduction **(3 marks)**
 - (iii) Nutrition and growth **(3 marks)**(c) Discuss the factors that affect the quality of honey. **(9 marks)**

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