MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

COURSE CODE: AHP 2203

COURSE TITLE: APICULTURE AND AQUACULTURE

DATE: 24ᵀᴴ APRIL 2019   TIME: 8.30AM – 10.30AM

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions. **ALL QUESTIONS ARE COMPULSORY:**

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Q1. (a) List five (5) species of bees found in Africa. **(5 marks)**
    (b) Name five (5) types of hives used in beekeeping**.** **(5 marks)**
    (c) Discuss the importance of bees to the Kenyan economy.
    (10 marks)
Q2. (a) Briefly describe the biology and the importance of the stingless bee in Kenya**.** **(6 marks).**
    (b) Discuss the pheromone glands and their role in the co-ordination and functioning of the hive. **(14 marks)**

Q3. (a) List Six diseases of bees, listed in the OIE Terrestrial Animal Health Code. **(6 marks)**
    (b) Discuss in detail one (1) disease of bees named in Q3 (a) above.
    (8 marks)
    (c) Discuss briefly apiary management practices. **(6 marks)**
Q4 (a) Define the following terms:
         (i) Aquaculture **(1 mark)**
         (ii) Blue Economy **(1 mark)**
    (b) Describe briefly the main types of aquaculture. **(3 marks)**
    (c) List 3 groups of organisms that are the main stay of aquaculture. **(3 marks)**
    (d) Describe the role of aquaculture in the achievement of the Vision 2030. **(12 marks)**
Q5 (a) Discuss the factors that contribute to the post-harvest losses in aquaculture. **(8 marks)**
    (b) Discuss two risks associated with aquaculture and their management approaches. **(8 marks)**
    (c) State four (4) factors considered when siting a fish pond.
    (4 marks)
    **************************The End ****************************