



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2023/2024

- COURSE NAME : ANIMAL BEHAVIOUR
- COURSE CODE : BWJ 21503
- PROGRAMME CODE : BWW
- EXAMINATION DATE : JULY 2024
- DURATION : 3 HOURS
- INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

- Q1** (a) In your own words, define animal behaviour. (2 marks)
- (b) Describe **ONE (1)** example of individual learning and cultural transmission in animal behaviour. (8 marks)
- (c) Outline how you can study animal behaviour by using experiment and observation (10 marks)
- Q2** (a) Suppose you intend to choose an Asian Leopard Cat that displays favourable behaviour for a captive breeding project. Demonstrate **THREE (3)** crucial steps and **TWO (2)** measures for assessing the genetic influence on their behaviour. (10 marks)
- (b) Describe **THREE (3)** rhythmic behaviour in animals. (6 marks)
- (c) Nerve cell firing thresholds are the equivalent of on-off switches rather than dimmer switches. Outline how animals use their nervous systems to gauge the strength of a stimulus. (4 marks)
- Q3** (a) Demonstrate the **TWO (2)** types of mimicry in animals. (4 marks)
- (b) Outline **THREE (3)** strategies of 'deterrence' for anti-predator adaptation in animals, and give **ONE (1)** relevant example for each. (12 marks)
- (c) Animals show many kinds of parental care, with taxonomic and ecological factors significantly determining parental strategies. Demonstrate **TWO (2)** types of parental care exhibited by animals. (4 marks)
- Q4** (a) Define the domestication process for animals. (2 marks)
- (b) One feature of domestication that requires a biological explanation is the similarity in some specific behavioural and ecological traits of the animals. Outline **TWO (2)** factors of animal behaviour that are crucial to be selected by humans for domestication. (4 marks)

- (c) Using a captive Malayan Tiger in Zoo Negara as a model, demonstrate **FOUR (4)** different types of stress that can challenge the tiger's normal behaviour. (8 marks)
- (d) Suffering occurs when an animal fails to cope or has difficulty coping with stress. Outline **THREE (3)** factors why animals faced this challenge. (6 marks)
- Q5** (a) Animal activism has been on the rise in Malaysia for the last 10 years, especially with the evolution of social media as a platform to share information. Considering the relevant stakeholders, laws and regulations in place, outline your views on the current state of animal welfare in Malaysia. (10 marks)
- (b) The utilization of animals by humans for "scientific procedures" is a broad term encompassing three crucial elements. Demonstrate **THREE (3)** elements that you believe are fitting for this expression. (6 marks)
- (c) When an animal with an unusual phenotype (such as a GMO or for other reasons) is used for scientific investigation, it may be unable to exhibit a suitable behavioural response due to a breakdown at any point in the chain of command and action. Analyze this statement. (4 marks)

- END OF QUESTIONS -