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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2021/2022**

COURSE NAME : ETHNOBIOLOGY

COURSE CODE : BWJ 30103

PROGRAMME CODE : BWW

EXAMINATION DATE : JANUARY / FEBRUARY 2022

DURATION : 3 HOURS

INSTRUCTION : 1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS AN
**ONLINE ASSESSMENT AND
CONDUCTED VIA OPEN BOOK**

THIS QUESTION PAPER CONSISTS OF **FIVE (5)** PAGES

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SECTION A: Multiple choice. Select the best answer for **Q1-Q9**.

(18 marks)

Q1 People use animals as the following **EXCEPT**

- A. Pets
- B. Transportation
- C. Shelter
- D. Sacrifices

Q2 Which of the following plants has different uses in different communities?

- A. *Catharanthus roseus*
- B. *Salix alba*
- C. *Artemisia annua*
- D. *Rauvolfia serpentina*

Q3 Which parts of *Calophyllum lanigerum* were being used to isolate calanolide A?

- I Stem bark
- II Latex
- III Leaves
- IV Twigs

- A. I and II
- B. I and III
- C. II and III
- D. III and IV

Q4 What lesson can we learn from the story of the Bintangor plant?

- A. The product needs to be patented
- B. Collaboration with local people is a need
- C. Strengthen the regulation of collaboration with foreign countries
- D. Advanced technology in pharmaceuticals is needed

Q5 Livestock and other domesticated animals can serve as bridges for pathogen exchange between humans and wildlife. Which of the following diseases is wrongly matched with their origin?

- A. Rabies from dogs
- B. Brucellosis via unpasteurized milk
- C. MERS-CoV from *Camelus dromedarius*
- D. Plague from rats

- Q6** Humans interact with animals in various ways and many of them for the explicit purpose of entertainment. Which of the following purposes potentially provides positive behavior towards conservation of animals?
- A. Private animal collections
 - B. Circuses
 - C. Zoo
 - D. Animal fighting
- Q7** Article _____ in Convention on Biological Diversity (CBD) is about Traditional Knowledge, Innovations and Practices.
- A. 8 (i)
 - B. 8 (j)
 - C. 9 (i)
 - D. 9 (j)
- Q8** Documentation of ethnobiological knowledge is essential for the following reasons such as
- I Cultural identity
 - II Product development
 - III Ecological services
 - IV Primary source of information
- A. I, II and III
 - B. I, II and IV
 - C. I, III and IV
 - D. II, III and IV
- Q9** The followings are the possible reasons why some people decrease the use of animal as food **EXCEPT**
- A. Conservation
 - B. Ritual/ Belief
 - C. Disease
 - D. Animal welfare

SECTION B: True/False. Select the best answer for **Q10-Q21**.

(24 marks)

Q10 Traditional Knowledge (TK) is unique to a particular ethnic.

TRUE FALSE

- Q11** Ethnobiology possibly involves the use of non-biological genetic resources.
TRUE FALSE
- Q12** For the Kadazan/Dusun community, when a river is declared as “tagal”, they are allowed to harvest the fish every day.
TRUE FALSE
- Q13** Plants produce primary metabolites such as essential oils.
TRUE FALSE
- Q14** Chickens, cows, sheep, goats, and camels can be slaughtered during Eid Adha, a Muslim festival as a symbolic for sacrifices.
TRUE FALSE
- Q15** Prior Informed Consent (PIC) is the only document a person needs when initiating collaboration with any indigenous people.
TRUE FALSE
- Q16** Act 134 allows indigenous people in Sabah and Sarawak to collect and hunt forest resources for their survival.
TRUE FALSE
- Q17** Local knowledge is different from indogenous knowledge; but, it is still part as traditional knowledge.
TRUE FALSE
- Q18** Traditional Cultural Expression is one of the elements mentioned in Nagoya Protocol.
TRUE FALSE
- Q19** Insects produce higher protein than chickens, even if they are fed with non-nutritious food.
TRUE FALSE

Q20 The red color, known as carmine, originated from cactus bugs.

TRUE FALSE

Q21 Belief and rituals are one of the elements that lead to sustainability and conservation of biodiversity as practiced by all human population.

TRUE FALSE

SECTION C: Essay. Write your answer for **Q22-Q27**.

Q22 Based on the supplementary file (**Supplementary File Q22**), if you are Jim Redwood who had been summoned by the Quinault Indian Nation Tribal Planning Committee to return to the long house for an important vote, determine who would you vote for and explain **FIVE (5)** reasons why.

(10 marks)

Q23 Demonstrate how the results of ethnobiological studies can be applied to reinforce conservation of natural areas.

(10 marks)

Q24 Access to Biological Resources and Benefit Sharing Act 2017 is an act for Malaysia to implement the Convention on Biological Diversity and any protocol to the Convention dealing with access to biological resources and traditional knowledge associated with biological resources and the sharing of benefits arising from their utilization and for matters connected therewith. Demonstrate **FOUR (4)** ways how this law can benefit the local community.

(8 marks)

Q25 Ethnobotanical approach is one of several methods that can be applied in choosing plants for pharmacological studies. Outline in detail **TWO (2)** minimum standards for ethnopharmacological data collection.

(10 marks)

Q26 Ethnozoology in the post-industrial era had been developed several ways, one of which is in the food industry. Discuss on positive development and negative development of ethnozoology in the food industry.

(10 marks)

Q27 Discuss **FIVE (5)** advantages of employing ethnobiological approach in searching for novel medicine as compared to random approach.

(10 marks)

– END OF QUESTIONS –