

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION **SEMESTER I SESSION 2019/2020**

COURSE NAME

BIODIVERSITY AND GLOBAL

ENVIRONMENTAL CHANGE

COURSE CODE

: BWJ 30503

PROGRAMME CODE : BWW

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION

: 3 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

TERBUKA

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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- Q1 (a) Among the five major extinctions scientists proposed,
 - (i) Select **ONE** (1) and state the estimated period it occurred.

(2 marks)

- (ii) Describe the events that caused major loss of biodiversity during that time.

 (6 marks)
- (b) Biodiversity have existed millions of years before the first human came round. Evidences of earliest human remains are traced back in Africa about 200,000 thousand years ago.
 - (i) According to paleoanthropologists, illustrate the movement of human from 200,000 years ago to the modern age.

(5 marks)

(iii) Outline **TWO (2)** behaviors of ancient humans that are said to be similar with that of the modern humans in relation to their perception of biodiversity. Justify your answer.

(12 marks)

- Q2 (a) The Earth's processes are comprised of systems and subsystems that are intricately linked with one another, that delineation of boundary between systems and subsystems is nearly impossible.
 - (i) Identify **THREE** (3) subsystems that are encompassing biosphere, lithosphere and hydrosphere altogether.

(6 marks)

(ii) From the three subsystems provided in Q2(a)(i), select ONE (1) and design a feedback loop that is directly or indirectly influencing the Earth's system.

(5 marks)

(b) Compare producer and consumer in terms of energy flow in an ecosystem.

(6 marks)

- (c) Scientists have found out that greenhouse gases are responsible for some changes in the Earth's climate systems. Analyze the role of greenhouse gases in global warming.

 (8 marks)
- Q3 (a) Carbon dioxide is one of greenhouse gases that has caught the curiosity of many scientists worldwide. Evaluate the scientific approach made by researchers to conclude that carbon dioxide is responsible for climate change.

(10 marks)



	(b)	Suggest the impacts of the following to biodiversity.		
		(i)	Coral bleaching	(5 marks)
		(ii)	Desertification	(5 marks)
		(iii)	Mining	(5 marks)
Q4	(a)	Climate change poses threats to biodiversity in many ways than scientists can so far.		an observe
		(i)	Demonstrate the abiotic consequence of climate change.	(5 marks)
		(ii)	Analyze how climate change can affect biodiversity.	(5 marks)
	(b)	UNFCCC is an international environmental treaty, which mainly tackles is climate change.		
		(i)	Define UNFCCC	(1 mark)
		(ii)	Differentiate UNFCCC from IPCC.	(6 marks)
	(c)	commi	Protocol is an international agreement under UNFCC, which it it is signing parties to reduce carbon dioxide emission legally ze the reasons why Kyoto Protocol failed to achieve its objectives.	
	(d)		aris Agreement aims to pick-up where Kyoto Protocol fails. Eva	

- END OF QUESTIONS -

