

Reg. No.:



Name:

University of Kerala

Y7996

Fourth Semester FYUGP Degree Examination, May 2026

Discipline Specific Core Course

ZOOLOGY

UK4DSCZOO202 - Evolution and Zoogeography

Academic Level: 200-299

2024 Admission

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks. Time: 6 Minutes. (Cognitive Level: Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each. Answer all questions

Qn No.	Question	CL	CO
1	Bipolar distribution refers to species found in Options : A) Tropics only B) Both polar regions C) Equator only D) Islands only	RE	4
2	Identify which species the “Lucy” fossil belongs to Options : A) Homo habilis B) Australopithecus afarensis C) Homo neanderthalensis D) Homo sapiens	RE	2
3	The classic example of industrial melanism is Options : A) Darwin’s finches B) Peppered moth C) Giraffe D) Frog	UN	1
4	Genetic drift will have negligible effect in Options : A) Young populations B) Small populations C) Large populations D) Old Populations	UN	2
5	Identify the correct statement. Options : A) Genetic drift is predictable. B) Genetic drift occurs only in large populations. C) Genetic drift is random. D) Genetic drift increases genetic stability.	UN	2
6	Identify which of the following hominid fossils help us understand Options :	UN	3

Qn No.	Question	CL	CO
	A)Plant evolution B)Human ancestry C)Animal physiology D)Climate change		

Part B. 8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Compare different types of natural selection	UN	1
8	Explain bipolar distribution with an example.	UN	4
9	List out the major divisions of the geological time scale.	AP	2
10	Explain the importance of studying hominid fossils in understanding human evolution	AP	3

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Write an essay on theories of organic evolution with examples. OR B) Explain Darwin's theory of natural selection with suitable examples	AP	1, 1
12	A) Analyse the modern concepts of organic evolution. OR B) Examine the genetic basis of evolution	AN	3, 3
13	A) Explain the Molecular basis of evolution of man OR B) Explain the Evolution of man. Comment on hominid fossils.	EV	4, 4
14	A)	CR	5, 5

Qn No.	Question	CL	CO
	Write an essay to explain the types of animal distribution OR B) Explain the fauna of Oriental and Neartic realms		