Click to download more NOUN PQ from NounGeeks.com



National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science

Department of Pure and Applied Sciences SEPTEMBER, 2020 EXAMINATION

COURSE CODE: BIO307

COURSE TITLE: EVOLUTION

CREDIT UNIT: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER **QUESTION 1** AND **ANY OTHER THREE** QUESTIONS

IST.	RUCTION: ANSWER QUESTION 1 AND ANY OTHER THRE	E QUESTIONS
1.	 a. Define the following terms: Natural selection 2 Marks Genetic drift 2 Marks Mutation 2 Marks Phylogenetics 2 Marks b. Enumerate the contribution of Baptiste Jean Lamarck to the understant 5 Marks 	•
	d. Write a concise note on Binomial nomenclature	7 Marks
	e. Using an annotated diagram only, describe the mechanisms of speciati	on 5 Marks
2.	a. Explain the term Vestigial structure as an evidence of evolution	6 Marks
	b. List any four divisions of Era.	4 Marks
	c. With the aid of an annotated evolutionary tree, ONLY, describe the evo	olution of green plants 5 Marks
3.	 a. Compare the Greek evolution with the Medieval evolution b. State Hardy-Weinberg Principle c. List six (6) evolutionary influences that could alter the Hardy-Weinberg d. expatiate on the term Genetic Hitchhiking 	6 Marks 2 Marks rg equilibrium 3 Marks 4 Marks
4.	 a. Draw a generalized life cycle of plant b. Mention six (6) assumptions underlying Hardy-Weinberg equilibrium c. Describe the generalized morphology of angiosperms flower d. List two (2) examples of Gymnosperm 	6 Marks 3 Marks 4 Marks 2 Marks
5.	5a. a. Write the logistic growth equation and interpret it.	3 Marks

b. What will be the population of Teaks in a Teak plantation after 10 years given that No = 4000,

3 Marks

per capita growth rate = 0.5, Euler's Constant = 2.71828.

Click to download more NOUN PQ from NounGeeks.com

- c. Draw an annotated logistic growth curve
- d. Explain ecology as an important aspect of evolution

- 3 Marks
- 6 Marks