Virtual University of Pakistan

Bt201

Ecology, Biodiversity & Evolution II

Final Past Papers

BT201 Paper

BT201 today 8:00am

1. Process influenced by landscape ecosystem. 2 marks
2. How human nutrient enrichment effect aquatic and terrestial ecosystem. 3 marks
3. Define Hardy Weingberd principle. 2 marks
4. What is optimal foraging theory. 3 marks 5. Cuveirs advantage. 2 marks 6. Lyell's mistake in theorizing natural selection. 5 marks 7. What do you know about the

proterozoic animal fossil? 3 marks8. Explain how exotic predators disturb the structure of food web? 5 marks9. Evolution of endosymbiosis and origin of eukaryotic cells. 5 marks10. Evolution of mutualism and mutualism of humans with other species. 10 markx.

BT201 Final term 11:00am 7 Sep, 2018

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Mcq's

1. **Ecological Genomics Definition**
2. To assemble a genome from a series of sequences requires tremendous **computational power.**
3. The first genome to be sequenced completely was that of **Haemophilus influenzae**
4. The **laborious edman degradation** technique has now been replaced mostly by sequencing using mass spectrometry
5. Species differ from foundation species in they are more likely to belong to **higher trophic levels**
6. Annelids range from **carnivores, herbivores, scavengers, deposit feeders, and filter feeders**
7. Quinine – drug used to treat **malaria**
8. Modern bread wheat is a mixture of recombined genes from **three different wild species**

9. One of the first questions that is asked when a species is considered for whole-genome sequencing is, **what is the size of its genome?**
10. **Allelic richness** Is the number of alleles in a sample (population),
11. On islands and habitat patches on continents**, species richness increases with area and decreases with isolation.**
12. Succession in the intertidal zone **requires 1 to 3 years**.
13. Highest rates of terrestrial primary production occur under warm, moist conditions
14. **Heterogeneity**, in a community's environment, this may allow for greater species richness because there are more distinct habitats to be occupied.
15. The refuges that promote the persistence of hosts and prey include secure places to which the exploiter has **limited access**.
16. The environment limits population growth **by changing birth and death rates.**
17. An environment in which resources are patchy also fosters **clumped distributions**.
18. This more complex level of social behavior, which is considered to be the pinnacle of social evolution, is called **eusociality.**
19. The most familiar relative measure of the water content of air is relative **humidity**.
20. The rate at which organisms can take in energy is **limited,**
21. **Biosphere Definition**
22. Multicelled algae appear as carbonaceous filaments from **1.8 billion-year**-old rocks in China
23. Human is in which order: **Primate**
24. Maximum parsimony assumes that **the tree that requires the fewest evolutionary events** is most likely.
25. In the 18th century, **Carolus Linnaeus** published a system of taxonomy based on resemblances
26. Oparin (1924): "**Primeval soup**" theory
27. Horizontal Gene Transfer

    Conjugation

    Tranformation

    Conjuction

    Transduction
28. Positive interactions:

    Commensalism

    Protocooperation

    Mutualism

    Competition
29. **Disruptive Selection**: natural selection that favors two or more extreme phenotypes are favored over any intermediate phenotype

30. The advantages of in situ conservation is not one of following:
    The species will have all the resources that it is adapted too
    The species have more space
    Bigger breeding populations can be kept
    The species will not evolve in their environment
1. The most common extensions of genomics are EXCEPT? (Ans) **vaccinomics**
2. Vertebrates Make only ….. of all animal species? (ans) **5%** 3. One of the following is not how protozoa reproduce?
4. Gymnosperm means? Ans **naked seeds**

Short Questions:

31. What are the processes of the ecosystem influenced by landscape structure. 2
32. Write four reasons which relatively have incomplete fossil record. 2
33. Define Hardy-Weinberg principle. 2
34. How nutrient enrichment says the human is altering the aquatic and terrestrial ecosystem.? 3
35. Define and explain optical foraging theory 3
36. Lyell's Mistake on natural selection. 3 **Long Questions:**

37. How organism evolutionary history is documented in its genome. 5
38. Explain with example how exotic predators disturb the structure of food web. 5
39. How evolution of mutualism took place, how humans developed relationship with other species. 10
40. Define ecology in our definition and write work of five different scientists. 10

Other papers

BT201

Species diversity and
species richness.
Lyell's mistake in natural selection.
Incomplete fossil record write four reason.
Mutualistic relationship.
Community structure define.
Effect of exotic predators on food web.
Effect of evolutionary history on whole genome sequence.

Nutrients intake by human effect on terrestrial and aquatic life. Landscape wala tha aik yad nahi exact.

BT201

Hybrd weinberg principle 3 mark
Exicto predators disturb the food web 5 mark
Genomic sequance 5 mark
How to documented genetic history in genome 3 mark
Human evolution according to muslimisam 10 mark
Write the phly of ambiotic prtozoans and write mode of locomotion 3 mark
Lyell mistake in natural selection 5 mark
What is community structure 2 mark
Baki yad ni
Mcqs zayada starting waly lesson ma sy thy or kuch last waly ma sy thy 50 to 65