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EXAMINATIONS OFFICE
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ROBERT MUGABE SCHOOL OF EDUCATION AND CULTURE

DEPARTMENT OF Science and Technical Education

**BACHELOR OF EDUCATION PRE-SERVICE HONOURS DEGREE
(SECONDARY) BIOLOGY.**

LEVEL 1 SEMESTER 1

EXAMINATION QUESTION PAPER

MODULE CODE TDSL 111

MODULE NARRATION BIODIVERSITY

DATE 2024

DURATION 3 HOURS

-----INSTRUCTIONS TO CANDIDATES:

- 1. Answer three questions.**
- 2. All questions carry equal marks.**

1. a) Carolus Linnaeus invented taxonomy, a classification system for biology. Discuss the importance of taxonomy explaining why the use of scientific names for organisms is preferred instead of common names. (10)
b) Examine the features and impacts on human life of the following phyla *porifera*, *cnidarian* and *Platyhelminthes*. (15)
2. a) Explain the diversity and adaptation of *Bryophytes*, *Filicinophytes*, *Coniferophytes* and *angiospermatophyta* to life on land. (15)
b) Organisms of the phylum *Nematoda* and phylum *Mollusca* have extensive impacts in humans and their activities. Discuss. (10)
3. a) Reptiles have adapted well to terrestrial life. Discuss (15)
b) Examine the impact of human beings on the kingdom Animalia studied. Examine the mitigation measures to conserve and protect biodiversity. (10)
4. a) Examine the sentiment that:
Organisms in the phylum *Arthropoda* have adaptations which contributed to the success of the group in general and in insects in particular. (15)
b) Explain how each of the following anthropogenic activities have impacted on biodiversity:
 - i) Agriculture (3)
 - ii) Industry (3)
 - iii) Sewage disposal and Mining (4)
5. a) Explain the various ways by which global warming has had impacts on plants and animals. (15)
b) Discuss any two Biological conservation strategies and Bio-safety protocols which the Zimbabwean government has taken to conserve and protect its biodiversity. (10)

END