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UZOC109

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B. Sc. Course (CBCS) Ordinance Sem-VI

EXAMINATION APRIL 2023

ZOOLOGY - ENVIRONMENTAL BIOLOGY & TOXICOLOGY

[Time: 2:00 Hours]

[Max. Marks: 80]

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate marks allotted to the questions.

3) Sub-question B in question no.3, 4, 5 and 6 are compulsory.

4) Illustrate your answers wherever necessary.

Q1 Write brief notes on **any four** of the following:

(4×4=16)

- a) Renewable energy resources
- b) Neurotic and Cardiac poisons
- c) Mortality
- d) Western Ghats- a biodiversity hotspot
- e) Radiation episode at Hiroshima and Nagasaki
- f) Artificial Sweetners.

Q2 Write concise notes on **any four** of the following:

(4×4=16)

- i. Biomagnification
- ii. Particulate matter
- iii. Forensic Toxicology
- iv. Growth curves
- v. Endangered species
- vi. Age pyramid

Q3 A) Write an account on Nuclear Energy and its impact on the environment.

06

OR

A) Give a broad classification of minerals with examples.

B) Discuss in brief the Ecological Scales in the levels of Organization.

06

06

Q4 A) Summarise the concept of Umbrella and Flagship species in Conservation, with examples.

06

OR

A) India is a Megadiversity nation -Justify with reasons.

06

B) Explain the role of Population dispersion in Population dynamics.

06

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- Q5 A) Define Environmental Pollutants and distinguish between primary and secondary Pollutants. 06

OR

- A) With reference to Arsenic, discuss the sources and its toxic effects. 06
B) Write an account on Intentional Additives in food. 06

- Q6 A) Enumerate the harmful effects of Radiation on human health. 06
OR

- A) Write an account on Electromagnetic Radiations. 06
B) Define Biotransformation and explain the various modes of Excretion of Xenobiotics. 06