Enrollment No._____

NAVRACHANA UNIVERSITY
a UGC recognized University

School: School of Science
Program/s: MSc. LS
Year: 2nd **Semester:** 3rd
Examination: End Semester Examination
Examination year: December - 2021

Course Code: LS252, **Course Name:** Ecotoxicology and Environmental Health
Date: 02/12/2021 **Total Marks:** 40
Time: 8.30 am to 10.30 am **Total Pages:** 02

Instructions:

- *Write each answer on a new page.*
- ** COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping*

Q. No.	Details	Marks	CO	BTL
Q.1	**Do as directed.** 1. Eco-toxicology is the study of _____ a) Chemical interactions of organism and environment b) Physical interactions of organism and environment c) Thermal interactions of organism and environment d) Biological interactions of organism and environment 2. Acute aquatic toxicity is measured in _____ a) EC b) AS c) PS d) CB 3. Chronic toxicity is based on _____ a) LOEC b) AOEC c) SOEC d) QEOC 4. Define Bergman's rule. 5. What point source is the most significant contributor to air pollution by mass in suburban areas? a) cattle farms b) transportation c) electric power generation d) waste disposal 6. Which of the following toxicity can occur due to single exposure? a) Acute toxicity b) Sub-acute toxicity c) Sub-chronic toxicity d) Chronic toxicity 7. Define biomagnification. 8. What is LD50? 9. Absorption of lead compound via inhalation route is up to 90%. State True or False. 10. The important physiological factors that control the absorption of poison is/are a) Dosage b) Duration of exposure b) type of preparation d) all of them	1x10=10	CO1 CO2 CO3 CO4 CO5	BTL1,2,3

Q.2	**Answer the following in brief (Any seven)** 1. How are the grazing fauna affected by heavy metals? 2. Why carnivorous populations show higher biomagnification compared to herbivorous organisms? 3. Mention the sources of heavy metals in the environment. 4. What are the clinical signs of mercury toxicity? 5. What are the 4 Rs found in waste management? 6. Give the differences between acclimation and acclimitization. 7. How can we make the transition to a more sustainable low-waste society? 8. What is thermal pollution and what are its effects on flora and fauna diversity? 9. Mention the disadvantages and advantages of recycling.	**2x7=14**	**CO1** **CO2** **CO3** **CO4** **CO5**	**BTL1,2,3,4**
Q.3	**Write short notes on (Any two)** 1. Minamata disease 2. Different methods of detoxifying hazardous wastes 3. Factors affecting cold adaptations in humans and animals.	**2x3=6**	**CO3** **CO4** **CO5**	**BTL1,2,3**
Q.4	**Answer the following in detail (Any two)** 1. What are the main route of entry of poison in the body? 2. What are the role of an individual to prevent pollution around them? 3. What are the different chemicals present in your home which affects the environment around you?	**2x5=10**	**CO1** **CO3** **CO4** **CO5**	**BTL1,2,3**