

**U.G. 5th Semester Examination-2021****ENVIRONMENTAL SCIENCE****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : ENVS-H-DSE-L-01B****(Ecotoxicology and Environmental Health)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following:  $2 \times 5 = 10$
- What do you mean by Environmental health?
  - What are the different types of toxicants found in the environment?
  - Define heavy metal. Give example.
  - What are organochlorine pesticides?
  - Why arsenite is more toxic than arsenate?
  - Distinguish between persistent and non-persistent pollutants.
  - Name two vector-borne diseases.
  - What are the symptoms of fluorosis?

2. Write short notes on any **two** of the following:  $5 \times 2 = 10$
- Dose-response relationship
  - Environmental carcinogens
  - Biological factors influencing toxicity
  - Epidemiology of arsenicosis
3. Answer any **two** of the following:  $10 \times 2 = 20$
- Define xenobiotics. What are the effects of xenobiotics in living systems?  $2 + 8 = 10$
  - Explain the sources, toxic effects and remedial measures of cadmium.  $2 + 4 + 4 = 10$
  - What are emerging contaminants in the environment? State their threats and adverse impacts on human health.  $2 + 4 + 4 = 10$
  - Differentiate between bioaccumulation and biomagnification. What are the causes of biomagnification? Explain it with suitable example.  $4 + 6 = 10$

*[Turn over]*