GROUP—B

Answer any **two** questions : 4×2=8

5. Discuss the influence of abiotic factors on species survival. What do you mean by Predation? 1+3

6. Discuss the sources and pathophysiology of CO poisoning with special reference to the binding of heme-containing proteins. 1+3

7. What is phase II biotransformation reaction? Describe different steps of glucuronidation phase II reactions. 1+3

8. What is E-waste? Write the potential health hazards associated with mismanageement of landfills. 1+3

GROUP—C

Answer *any* **one** question : 8×1=8

9. Discuss the sources and mechanism of organic mercury toxicity. Describe critically the effects of radiation in the development of cancer.
(1+3)+4

10. What is a biosphere reserve? Mention the importance of CITES in conservation of biodiversity. What is 'mid-night dumping'?
3+4+1

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2024

M.Sc. 2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER : PHY-201

Full Marks : 40

Time : 2 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.

Illustrate the answers wherever necessary.

SECTION–A

PAPER : PHY-201.1

(Community Health : Health, Disease & Nutrition)

GROUP—A

Answer any **two** questions : 2×2=4

1. Differentiate between non-communicable and communicable diseases with examples. 2

2. State the factors for the development of childhood obesity.. 2

3. Define anorexia nervosa. Mention the sign and symptoms of bulimia nervosa. 1+1

4. Mention the major forces that influence population genetic structure. 2

GROUP—B

Answer any **two** questions : 4×2=8

5. Define the special formula recommended for preterm babies. Mention the daily nutrients and fluid requirement for low birth-wight babies. 2+2

6. Give an account of allele frequency and genotype frequency in describing population genetics. 4

7. Differentiate between benign and malignant tumors. What is metastasis? 3+1

8. Classify dental caries. Explain the characteristic features of it. 2+2

(Continued)

GROUP—C

Answer any **one** question : 8×1=8

9. Name the four major non-communicable diseases prevalent world wide. What are non-modifiable and modifiable risk factors? Discuss these factors with examples. 2+(3+3)

10. What is EAR? Prepare a chart of energy requirements for different groups of children having age between 1–12 years. How would you calculate the EER (K cal/day) of 3 to 8 years old boys. Mention the benefits of breast feeding of lactating mother. 1+2+2+3

SECTION–B

PAPER : PHY-201.2

(Community Health : Environmental Pollution, Toxicology and Management)

GROUP—A

Answer any **two** questions : 2×2=4

1. What do you know about food web? 2

2. What is 'Commensalism'? 2

3. Define toxicokinetics and toxicodynamics. 1+1

4. What do you understand by hot-spot of biodiversity? 2

(Turn Over)