'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Sec 1st Semester Examination, 2023

UPSISEC11001-PHYSIOLOGY

HOMEOSTASIS AND DISEASE

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1.   Attempt any *five*:   1×5 = 5

   (a) Define health.

   (b) What is acute disease?

   (c) What do you mean by congenital disorder?

   (d) Differentiate Undernutrition and Malnutrition.

   (e) Name one cancer biomarker and mention its normal level in body.

   (f) What is spastic cerebral palsy?

   (g) Name two antioxidant compound of the body.

   (h) Name three Reactive Oxygen species.

GROUP-B

Attempt any *three*   5×3 = 15

2.   Write short notes on: $2\frac{1}{2} \times 2 = 5$

   (a) Hyperplasia

   (b) Cholecystitis.

3.   Mention the causes and symptoms of Pneumoconiosis.   5

4.   Discuss the causes of muscular dystrophy.   5

5.   Describe the positive feedback mechanism of muscle cells during heavy exercise.   5

6.   Mention the salient features of $Cyt.P_{450}$. Describe its role in xenobiotic   2+3
        metabolism.

GROUP-C

Attempt any _two_ $10 \times 2 = 20$

7. Discuss the Motor, Cognitive and Psychosis type of symptoms of Parkinson's   4+3+3
    disease.

8. Write short notes on: 5+5
    (a) Biodegradation
    (b) Intercellular Communication.

9. Mention three specific symptoms of the following diseases: $2\frac{1}{2} \times 4 = 10$
    (a) Gastritis
    (b) Jaundice
    (c) Diarrhoea
    (d) Dysentry.

10. Describe the causes, symptoms, complications and treatment of Gonorrhea. $2\frac{1}{2} \times 4 = 10$

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