



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 3rd Semester Examination, 2022

CC5-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Attempt any **five**: 1×5 = 5
 - (a) What is hematoidin?
 - (b) What is pyroninophil cell?
 - (c) What is thrombosthenin?
 - (d) What is sydersomes?
 - (e) What is schilling index?
 - (f) What is color index?
 - (g) What is MCD?
 - (h) What is porphyrin?
 - (i) What is ALA synthase?
 - (j) Name the complex of hemoglobin in plasma.

2. Attempt any **three**: 5×3 = 15
 - (a) Discuss the causes of hemoglobin inclusion in RBC.
 - (b) Give a brief description of developmental theories of Leucocytes.
 - (c) Discuss the role of lymphocytes in immunity.
 - (d) Discuss the physiological variations of blood volume.
 - (e) Discuss the causes, symptoms and prevention of edema.

3. Attempt any **two**: 10×2 = 20
 - (a) Discuss briefly the lymphatic system and functions of lymph. 5+5
 - (b) Describe the intrinsic system of blood coagulation along with a brief description about the factors. 6+4
 - (c) Discuss the biosynthesis, fate and compounds of hemoglobin. 4+3+3
 - (d) Specifically mention the importance of different plasma proteins. 10

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