

UNIVERSITY OF CALCUTTA

B.Sc. EXAMINATION, 2020

Part I (Under 1+1+1 Regulation, 2009)

PHYSIOLOGY (HONOURS)

PAPER- 2A (Theory)

VIDYASAGAR COLLEGE FOR WOMEN

TIME: 2 HRS

FULL MARKS: 100

Answer any five question:

5×10=50

1. Discuss the intrinsic pathway of blood coagulation. Name one anticoagulant. 9+1
2. Explain the physiological basis of sickle cell anaemia & thalassemia. What is Methamoglobin? What is MCHC ? 3+3+2+2
3. How can you determine the mean electrical axis of heart of an individual ? 10
4. Discuss the cardiovascular adjustment after haemorrhage . 10
5. Draw a pressure –volume loop of left ventricle and label it. 10
6. What is venous pulse ? state its physiological significance. 4+6
7. Discuss the role of chemoreceptor in the regulation of respiration. 10
8. Discuss the oxygen dissociation curve of hemoglobin. 10

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Paper –2B (Practical)

Full-Marks-50

Identify the following biochemical substances with experiment, observation and inference .Give confirmatory test for each of these substances. 5x10

- a) Glucose b) Albumin c) Acetone d) Glycerol e) Dextrin .

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