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The West Bengal University of Health Sciences MBBS 1st Professional Examination, January 2020

Subject: Physiology

Paper: I

Full Marks: 50

Time: 2 1/2 hours

Attempt all questions. The figures in the margin indicate full marks.

Group A

a) Define Hemostasis. Describe the sequence of events leading to hemostasis. What is the role of platelets in clotting? Enumerate the common laboratory tests for investigation of bleeding disorders.

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b) Identify the receptors, afferent pathways, integrating centre, efferent pathways & effectors in the arterial baroreceptor reflex. When the arterial baroreceptors decrease or increase the rate of firing? What changes in the autonomic outflow & cardiovascular function occur? Explain how tachycardia occurs in Cardiovascular shock. 5+ 1+2+2+2

Group B

2. Answer any two of the following:

2 x7

- a) Compare & contrast the transmission of electrical activity at a neuromuscular junction with that at a synapse. What are Myasthenia Gravis?

 5+2
- b) What is the compensatory mechanisms developed during acclimatization in high altitude?
- c) Outline the mechanism of HCl synthesis & secretion in the stomach. What are the paracrine & endocrine regulators of HCl secretion?

 4+3

Group C

3. Write a brief account on any four of the following:

4x3

- a) Receptor mediated endocytosis.
- b) Megaloblastic anemia.
- c) Pulmonary Surfactant.
- d) P-R interval.
- e) CCK-PZ.

Group D

4. Give the physiological explanation of the following:

4x3

- a) Relative lymphocytosis occurs in bone marrow depression in adults.
- b) Cyanide poisoning causes high PO2 in venous blood.
- c) Capillaries are also called 'exchange vessels'.
- d) Absence of bile salts in the small intestine may cause steatorrhoea.