

The West Bengal University of Health Sciences
MBBS 1st Professional (Supplementary) Examination 2014

Subject : Physiology
Paper : I

Full Marks: 50
Time : 2 ½ hours

Use separate answer script for each group
Attempt all questions. The figures in the margin indicate full marks

Group – A

1. a) What is hemophilia? Enumerate the steps of haemostasis. Describe the intrinsic pathway of coagulation. 2+3+7

or

- b) What do you mean by normal blood pressure? Discuss the regulation of blood pressure in a normal individual, what happens in systolic and diastolic blood pressure in Aortic incompetence? 4+5+3

Group – B

2. Answer **any two** questions :

- a) What is sinus arrhythmia? What is the cause? 2+5
- b) What is meant by gastric mucosal barrier? What are the changes in it that lead to peptic ulceration? 2+5
- c) Describe the role of ATP in the skeletal muscle contraction and relaxation. 7

Group – C

3. Write short notes on **any four** of the following :

- a) Law of Land steiner. 4 x 3
- b) Alveolocapillary membrane.
- c) Venous return.
- d) Enterohepatic cycle.
- e) Excitation contraction coupling in skeletal muscle.

Group – D

4. Give the physiological explanation of the following :

- a) Anaemia occurs after gastrectomy. 4 x 3
- b) In anaemic hypoxia oxygen therapy does not produce much help.
- c) Oedema is seen in chronic liver disease.
- d) Removal of terminal ileum may lead to Steatorrhea.