



**The West Bengal University of Health Sciences
MBBS 1st Professional (Supplementary) Examination, 2018**

Subject : Physiology**Paper : I****Full Marks : 50****Time : 2½ hour**

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

Group-A

1. a) Define Electrocardiogram. How augmentation occurs in augmented leads? What is PR interval?
How you can diagnose various types of AV block from ECG : 1+4+2+5=12

or

- b) What are Baroreceptor? Describe the role of baroreceptors in maintaining the blood pressure. What is hypertension? 2+7+3=12

Group-B

2. Answer any two of the following : 2 x 7
- a) Define resting membrane potential. Discuss the ionic basis of generation of action potential in skeletal muscles. What is tetanus? 2+4+1=7
- b) How does Rh incompatibility occur? Describe the haemolytic disease of the new born with its prevention. 4+3
- c) What is meant by gastric mucosal barrier? What is its role in peptic ulceration 2+5

Group-C

3. Write short notes on any four of the following : 4 x 3
- a) Water hammer pulse.
- b) Hypoxic hypoxia.
- c) Phagocytosis.
- d) Sinoaortic reflex.
- e) Dietary fibres.

Group-D

4. Give the Physiological explanation of the following : 4 x 3
- a) Why Pancreas is not autodigested?
- b) Digitalis increases the force of contraction of cardiac muscles.
- c) Cyanosis does not occur in severe anaemia.
- d) Oedema is seen in chronic liver disease.