

This question paper contains 2 printed pages

6871

Your Roll No

M.Sc. BIOMEDICAL SCIENCES / II Sem. J

Paper · MBS-205— HUMAN PHYSIOLOGY – I

(Admissions of 2009 and onwards)

Time 3 hours

Maximum Marks 70

*(Write your Roll No on the top immediately
on receipt of this question paper)*

Attempt all questions

- 1 Give the composition of blood Discuss the physiology of blood clotting 10
- 2 Define arterial blood pressure (ABP) and its components Describe in detail the regulation of ABP. 10
3. Write short notes on
 - (i) Non-respiratory functions of lung
 - (ii) Glomerular filtration rate
 - (iii) Functions of saliva
 - (iv) Neural regulation of respiration
 - (v) Properties of cardiac muscle 5×4=20

P T O

4 Differentiate.

- (i) Myelinated and Unmyelinated nerves
- (ii) Secondary active transport and Facilitated diffusion
- (iii) An electrotonic and Cath electrotonic potentials.

$4 \times 3 = 12$

5 Draw well labelled diagrams

- (i) Mechanism of HCl secretion
- (ii) Neuromuscular junction.

$4 \times 2 = 8$

6 Give reasons:

- (i) Why can heart muscle not be tetanised?
- (ii) Why do skeletal muscles develop maximum tension at optimal length?

$2 \cdot 5 \times 2 = 5$

7 Define

- (i) Cardiac output
- (ii) Anemia
- (iii) Action potential
- (iv) Dead space
- (v) Homeostasis.

$1 \times 5 = 5$