

# 2010 Scheme

Q.P. Code: 103001

Reg. No.: .....

## First Professional MBBS Degree Supplementary Examinations September 2021

### Physiology - Paper I

Time: 3 Hours

Total Marks: 50

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

**Long essay** (10)

1. An 18 years old boy meets with a road traffic accident, gets injured and loses 20% of blood volume. Answer the following
  - Define shock
  - Describe the Baroreceptor Mechanism of blood pressure regulation
  - Classification and major causes of various types of shock (2+4+4)

**Short essays** (2x5 =10)

2. Describe the different stages and factors influencing and regulating erythropoiesis
3. Describe chemical control of respiration

**Answer briefly** (5x3=15)

4. Hazards of mismatched blood transfusion
5. Composition of pancreatic juice
6. Glomerular filtration rate.
7. Functions of platelets
8. Origin and spread of cardiac impulse

**Draw and label** (2x2½ =5)

9. Mechanism of gastric HCL secretion
10. Oxygen haemoglobin dissociation curve

**Explain the physiological basis of the following** (5x2=10)

11. Polyuria in diabetes mellitus.
12. Concept of universal donor and recipient
13. Intrapleural pressure is negative
14. Gastric mucosa is resistant to auto-digestion
15. Hyaline membrane disease

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