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Q.P. Code: 103001 Reg. No.:

First Professional MBBS Degree Supplementary Examinations March 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)

- A 20 year old boy climbing a mountain suffered from shortness of breath after reaching about 3200m from sea level. Answer the following
 - Define hypoxia
 - · Probable cause of hypoxia in this case
 - · Characteristic features of different types of hypoxia
 - · Treatment of hypoxia
 - Different types of cyanosis and their causes (1+1+4+2+2)

Short essays (2x5 =10)

- 2. Describe the mechanisms of blood coagulation
- 3. Define cardiac output, cardiac index. Regulation of cardiac output

Answer briefly (5x3=15)

- Transport of CO₂ in blood
- 5. Factor affecting glomecular filtration rate
- Functions of bile
- Iron deficiency anaemia
- Hering –Breuer reflex

Draw and label $(2x2\frac{1}{2}=5)$

- 9. Normal spirogram
- 10. Juxtaglomerular apparatus

Explain the physiological basis of the following

(5x2=10)

- 11.AV nodal delay
- 12. Hyperthermia
- 13. Jaundice
- 14. Polycythemia at high altitude
- Myocardial infarction

