

Date: 06-07-2012

0712 E042

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours Max Marks: 50

Instructions: 1. Answer to the points. 2. Use separate answer books for each section. 3. Draw diagrams wherever necessary.

Section 1

1. Write briefly on (any two): (10)
 - a. Short term mechanisms of blood pressure regulation
 - b. Innate immunity
 - c. Pulmonary surfactant
2. Write briefly on (any two): (6)
 - a. Extrinsic mechanism of blood coagulation
 - b. Landsteiner's Law
 - c. Functions of leucocytes
3. Write briefly on (any one): (3)
 - a. Positive feedback mechanism
 - b. Action potential in myelinated nerve fibre

4. Write briefly on (any on: (6)
- Pyrexia
 - Juxtaglomerular apparatus
 - Factors affecting glomerular filtration rate

Section 2

- Write briefly on (any two): (10)
 - Coronary circulation
 - Normal E.G.
 - Regulation of heart rate
- Write briefly on (any two): (6)
 - Nervous regulation of respiration
 - Vital capacity
 - Dead space
- Write briefly on (any on: (3)
 - Acclimatization in residents of high attitude
 - Oxygen debt
- Write answers in two or two sentences (any six): (6)
 - Causes of prolonged P-R interval in E.G.
 - Idiopathic thrombocytopenic Purpur
 - Erythroblastosisfoetalis.
 - Residual volume.
 - Endocrine functions of kidney.

- f. Haemophili
- g. Cystometrogram.
- h. Myoglobin.

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