

Date: 12-06-2014

KCB 8413

First Year MBBS Examination

I MBBS Physiology Paper 1

marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Explain in detail: (any two) (10)
 - a. Physiological importance of various cell connections
 - b. Mechanism of action of Natural anti-coagulants
 - c. Mechanism of secretion of HCl in stomach
2. A. Write brief notes on (any two) (6)
 - a. Mechanism of conduction of impulse in myelinated nerve
 - b. Functions of Local Hormones in gastro-intestinal tract
 - c. Give classification of anaemia. Write effects of anemia on various body systems
3. B. Write brief on (any one) (3)
 - a. Functions of bile
 - b. Primary active transport across cell membrane
4. Give brief on (any two) (6)
 - a. Physiological functions of tissue macrophage system
 - b. Complement system providing natural immunity
 - c. Sequence of events in skeletal muscle contraction

Section 2

1. Explain in detail (any two) (10)
 - a. Define and classify shock and discuss in detail about circulatory shock
 - b. Effect of exercise on cardiovascular system
 - c. Mechanics of respiration
2. A. Write briefly on (any two) (6)
 - a. Coronary circulation
 - b. Electrocardiogram (EC

c. Oxygen hemoglobin dissociation curve.

3. B. Write briefly on (any one) (3)

a. Factors affecting heart rate (HR)

b. Periodic breathing

4. Write answers in 2-3 sentences any six (6)

a. Which plasma proteins mainly contribute to colloid pressure?

b. Why skeletal muscles have a striated appearance?

c. Explain Bohr's effect

d. Lysosomes are Garbage Disposal of cell

e. Effect of age on Basal metabolic rate

f. Effect of stimulation of parasympathetic system on pupil of eye

g. Name 2 of the heat losing mechanism in human body

h. Define Einthoven's law

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