

Date: 11-06-2013

GDG 5603

First Year MBBS Examination

I MBBS Physiology Paper 1

Time: 3 hours

Max Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates 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) Write in detail about the composition of pancreatic juice. Write function of each component(A.246) (8.482)

b) Which are various blood group systems? Write in detail about Rh incompatibility erythroblastosis fetalis.

c) What do you mean by 'action potential? Draw and label various phases of it. Explain ionic basis of each phase.

2A. Write brief notes on (any two) (6)

- a) Write in detail about fate of RBC. Write briefly on jaundice.
 - b) Extrinsic mechanism of coagulation (A.131) (B.156)
 - c) Swallowing/deglutition reflex (A.270) (8.461)
28. Write brief on (any one) (3)
- a) Passive transport across cell membrane
 - b) Write in detail about packed cell volume (PCV) and erythrocyte sedimentation rate (ESR)
3. Give brief on (any two) (6)
- a) Write in detail about cell junctions
 - b) Active immunity
 - c) Functions of liver

Section 2

4.Explain in detail (any two) (10)

- a) Hypovolumic shock
- b) Hypoxia (A-756) (8.352)
- c) Oxygen dissociation curve

5A. Write briefly on (any two) (6)

- a) Bipolar limb leads of ECG
- b) Mechanisms activated by heat
- c) Muscles of respiration

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

- a) Surfactant (A.715) (8.296)
- b) AV nodal delay

6.Short explanatory objective question: (6)

- a) Give an example of secondary active transport
- b) Give one example of positive feedback mechanism
- c) State Landsteiner's law (A.139) (B.165)
- d) Define sarcomere (A.171) (B.68,178)
- e) Hb first appears in which stage of erythropoiesis? (A.71) (B.104)
- f) Why intrapleural pressure is subatmospheric?
- g) Which cells in gut secrete 'gastrin'?
- h) Why cardiac muscles act as syncytium?
- i) What is effect of sympathetic system stimulation on pupil of eye.
- j) What is the effect of ageing on BMR?

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