

## MANIPAL UNIVERSITY

## FIRST MBBS DEGREE EXAMINATION – MAY/ JUNE 2011

## SUBJECT: PHYSIOLOGY– PAPER II (ESSAY)

Saturday, June 04, 2011

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 40

✍ All questions are compulsory. Write brief, clear and legible answers.

✍ Illustrate your answers with diagrams and flow charts wherever appropriate.

1. Define blood pressure. Give the normal values for systolic and diastolic blood pressure. Name determinants of blood pressure. Explain the role of baroreceptors in regulating blood pressure.

( $1\frac{1}{2}+2\frac{1}{2}+6 = 10$  marks)

2A. Define G.F.R. Give its normal value. With the help of a formula explain the role of various factors which influence G.F.R.

2B. Explain the pharyngeal phase of deglutition.

(( $1+5$ )+ $6 = 12$  marks)

3A. Outline the role of End diastolic volume on cardiac output.

(3 marks)

3B. In a tabular column give the differences between I and II heart sounds.

(3 marks)

3C. Define and give the normal values for:

i) vital capacity

ii) intrapleural pressure

iii) dead space air

(3 marks)

3D. Draw a carbondioxide dissociation curve and explain Haldane's effect.

( $1+2 = 3$  marks)

3E. In a tabular column give the differences in hematological changes between prehepatic and post hepatic jaundice.

(3 marks)

3F. Outline the role of platelets in Haemostatic plug formation.

(3 marks)



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