

Summer Examinations, 2000

B.Sc. (Hons.)

PHYSIOLOGY

SECOND PAPER

Professor J. V. McLoughlin

Professor M. Kane

Dr. D. Colbert

Dr. A.C. Hynes

Dr. L.R. Quinlan

Answer FOUR questions out of SIX. Time allowed 3 hours.

1. Write short notes on three of the following:
Protein S; Thrombomodulin; Thrombin; Hirudin
2. What significance has the "height" of the diaphragm?
3. Write notes on any three of the following: endothelin, natriuretic peptides, the plasma anion gap; the urinary anion gap; the osmolal gap; the Schilling Test.
4. Explain how the body systems interact in response to severe insult (trauma, infection, starvation).
5. Give a short summary of the role of vitamin B12 under following headings:
origin, availability, absorption, metabolism.
6. Describe the origin and role of nitric oxide in the body. Limit your answer to the cardiovascular system and the central nervous system.