

FIRST M.B., B.S. DEGREE EXAMINATION, APRIL 1992.

First Year

Second Semester

Paper II — PHYSIOLOGY—II

Time : Three hours.

Maximum : 90 marks.

SECTION A

1. Trace the pathway of corticospinal tract. Mention in a tabular form the differences between upper motor neuron lesion and lower motor neuron lesion. (15 marks)
2. Name the respiratory centres. Describe in detail the chemical regulation of respiration. (15 marks)

SECTION B

3. Write briefly :
 - (a) Define synapse. Describe the mode of transmission at a synapse.
 - (b) Classify taste substances. Describe diagrammatically the taste pathways.
 - (c) Define Fick's principle. Using this principle how is cardiac output determined.
 - (d) Functions of rods and cones.
 - (e) Draw and describe a normal arterial pulse tracing.
 - (f) Organ of Corti. (6 × 5 = 30 marks)