



First M.B. Examination.

1908.

PHYSIOLOGY.

The figures in the margin indicate full marks.

FIRST HALF.

Examiner—ASST.-SURGEON GOPALCHANDRA CHATTERJEE,
M.B

N.B.—*Question (1) must be answered. Of the next two questions ONE only is to be answered.*

1. What is an enzyme ? Describe its probable chemical nature. 125
Give an idea of the action of enzymes in general.
2. Describe the structure of a long bone. 100
State clearly how nutrition of bone is carried on.
Give a clear idea of the development of a long bone.
3. Give the composition of bile. 100
Describe the several theories regarding the origin of the principal constituents of bile and give their list.
Describe the mechanism of secretion of bile and its action on food.

SECOND HALF.

Examiner—CAPT. D. MCCAY, M.B., I.M.S.

N.B.—*Question (4) must be answered. Questions (5) and (6) are of equal value and only ONE of them is to be answered.*

4. Give a complete account of the Glossopharyngeal nerve, mentioning its origin (deep) and distribution. 125
Give a full statement of its functions.
5. Give a complete account of the suprarenal capsule, including its development, anatomical structure and physiological importance. 100
6. Write an essay stating all you know about colour-blindness. 100

ANATOMY.

FIRST HALF.

Examiner—MAJOR C. R. STEVENS, M.D., F.R.C.S., I.M.S.

Value of each question = 125.

Two only from each Half are to be attempted.

1. Describe the course and relations of the Ureter (1) in the male, (2) in the female.
2. Describe the formation of the cardiac plexuses.
3. Give the boundaries and contents of the sub-occipital triangle.

SECOND HALF.

Examiner—DR. MRIGENDRALAL MITRA, M.D., F R.C.S. (EDIN.).

4. Describe the arterial supply of the stomach and intestines.
5. Describe the formation of the lumbar plexus and distribution of the nerves arising from it.
6. Give a dissection to expose the deep palmar arch.

MATERIA MEDICA.

The figures in the margin indicate full marks.

FIRST HALF.

Examiner—DR. R. G. KAR, L.R.C.P. & S.

{ N.B.—*All questions to be answered.*

1. How do drugs alter the composition of the urine ? Name four **100** drugs which colour the urine and give the colour change brought about in each case.
2. *Cannabis Indica* : its sources, habitat, pharmaceutical prepara- **100** tions with doses. Name the different parts of the plant which are used by the natives of India.
Describe its action on the nervous system. What are its therapeutic uses in diseases of the nervous system ?
3. A patient with severe ague cannot bear Cinchona or Quinine : **100** how would you treat the case ? Give prescriptions.



SECOND HALF.

Examiner—LT.-COL. G. F. A. HARRIS, M.D., F.R.C.P.,
I.M.S.

N.B.—Any two questions to be answered.

4. *Cocaine* : state what is known 150
(a) of its *local* action ;
(b) its action on the central nervous system.
5. Give a classified list of drugs which can be used as *hypnotics* : 150
give the doses of each drug named and state what you know of the
conditions necessitating their use.
6. What do we know of the action of drugs on the plain muscle 100
of the blood vessels ?
Give examples of drugs which act as *vaso-constrictors*, and of others
which act as *vaso-dilators* explaining the action of each in detail.

Written	..	600	Full marks.
Oral	..	200	..
Practical	..	200	..