

[KD 502 A]

Sub. Code : 4053

FIRST M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

(Revised Regulations)

Paper III — PHYSIOLOGY INCLUDING  
BIOPHYSICS — I

Time : Three hours                      Maximum : 100 marks

Two and a half hours                      Theory : 70 marks

for Theory and MCQ 30 minutes                      MCQ : 30 marks

MCQ must be answered separately on the answer sheet  
provided as per the instructions on the first page.

Answer ALL questions.

Draw diagrams wherever necessary.

1. Classify the hormones of the Adrenal Cortex.  
Describe the actions and the regulation of Secretion of  
Glucocorticoids. (15)
2. Write short notes on : (4 × 5 = 20)
  - (a) Vasa recta
  - (b) Neuromuscular blocking agents
  - (c) Hormones regulating pancreatic exocrine  
secretion.
  - (d) Tests to establish Fertility in males and  
Females.

3. Name the plasma proteins and their  
concentrations. What are the functions of the plasma  
proteins and what is plasmapheresis? (15)

4. Write short notes on : (4 × 5 = 20)

- (a) What are the types of sweat glands in the  
body? What is the role of sweat gland in body  
temperature regulation?
- (b) Compound Action Potential
- (c) Thiocyanate space
- (d) What is LH surge and its physiological  
importance?