

September-2007

[KR 231]

Sub. Code : 2976

M.Sc. (Non-Clinical) DEGREE EXAMINATION.

Final

Branch V — Microbiology

**Paper I — GENERAL BACTERIOLOGY AND
IMMUNOLOGY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(1) Enumerate the various antigen-antibody reactions. Write a note on the different types of ELISA.

(20)

(2) Discuss the structure and functions of porins of gram negative bacilli.

(15)

(3) Describe antigenic presenting cells and explain MHC restriction.

(15)

II. Briefly describe the following :

(6 × 5 = 30)

(a) Plasmids

(b) DNA probes

(c) Polymerase chain reaction

(d) Natural killer cells

(e) Anerobic culture techniques

(f) Genetic recombination in bacteria.