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PG/IIIS/

M.Sc. 3rd Semester Examinati

BIOCHEMISTRY

PAPER – BIC-302

Full Marks : 40

Time : 2 hours

Answer all questions

The figures in the right-hand margin in

*Candidates are required to give their an
own words as far as practica.*

Illustrate the answers wherever n

GROUP – A

1. Answer any *five* questions from the fol
 - (a) What is the difference between nude mice ?
 - (b) What is anaphylatoxin ?

(2)

- (c) What is the major source of non-peptide antigen ?
- (d) What is Myasthenia Gravis ?
- (e) What is the role of adjuvant in immunization ?
- (f) What is surrogate light chain ?
- (g) What is meant by 'passage through placenta'.
- (h) List the effector molecules secreted by activated CTL.

GROUP – B

2. Answer any *two* questions from the following : 2 × 5
- (a) Explain why a V_H segment can not join directly with a J_H segment in heavy chain gene rearrangement.
 - (b) What is PRR ? Give an account of PRR in relation to defence mechanism in animal.
 - (c) Briefly describe the protective roles of neutrophils.

(3)

- (d) What are the chemical and immunological functions of IgG?

GROUP – C

3. Answer any *two* questions from the

- (a) Explain in brief about hypersensitivity. Differentiate between immediate and delayed type hypersensitivity.
- (b) Explain how NK cells recognize and kill target cells. Describe the mechanism by which NK cells kill target cells.
- (c) Explain why serum IgM can activate complement by itself. What is bystander lysis? Why are bystander cells not normally destroyed? What is the result of bystander lysis?
- (d) Briefly explain the immunological functions of Tumor necrosis factor and interferon- γ .