2017

M. Phil.

2nd Semester Examination

LIFE SCIENCE

PAPER - LSC-126

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

(Advanced Immunology)

Answer all questions.

Group - A

- 1. Answer any four questions from the following: 4×2
 - (a) What are hypervariable region of H and L chains of an antibody?
 - (b) What is class switching?
 - (c) What do you mean by complements?
 - (d) What is MHC restriction?

- (e) Write down the characteristics of cytotoxic hypersensitivity.
- (f) What do you mean by antigen and immunogen.

Group - B

2. Answer any four questions:

(a)					nechanism sitivity.	of	the	reactio	on o:
(b)	Discus	s the	defect	of	glycosylat	ion	of	IgG -	CH

domain in the development of rheumatoid arthritis.

4×4

- (c) Differentiate between adjument and hapten. 4
- (d) What do you understand by antigen processing and presentation.
- (e) Discuss the autoimmune response in systemic Lupus Erythematosus.
- (f) Write a brief note on clenal selection theory. 4

Group - C

3. Answer any two questions	•
-----------------------------	---

 2×8

- (a) Describe the Toll like receptors in innate immunity.
- (b) Draw the receptors present on the surface of the β-lymphocytes mentioning their ligand and functions.
 4+4
- (c) How T-cells are activated? State the importance of transcription factors.

 5+3