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M. Sc. (Fourth Semester) EXAMINATION, 2020

MICROBIOLOGY

Paper Second

(Advanced Immunology, Diagnostics and Prophylaxis)

Time : Three Hours Maximum Marks : 80

Note : Attempt all questions. All questions carry equal marks.

- 1. Write short notes on any four of the following:
 - (a) T-cell Receptor genes
 - (b) Designer antibody
 - (c) Nosocomial infection
 - (d) Antiviral agents
 - (e) Application of monoclonal antibodies
 - (f) Difference between live vaccines and killed vaccines
- 2. Describe light and heavy chain gene recombination.

Or

Write short notes on any two of the following:

- (a) Class switching recombination
- (b) Membrane and secreted immunoglobulins
- (c) BCR and TCR diversity

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3.	Give	an	account	on	synthesis	and	production	of
	immunoglobulins.							

Or

Write short notes on any two of the following:

- (a) Autoimmune disorders
- (b) Immunodeficiency diseases
- (c) Monoclonal antibody
- 4. Describe the principles of antimicrobial action.

Or

Write short notes on any two of the following:

- (a) DNA vaccines
- (b) Antifungal and Anticancer compounds
- (c) Viral vaccines
- 5. Explain microbiological, immunological and molecular diagnosis of microbial diseases.

Or

Write short notes on any two of the following:

- (a) Immunoblotting
- (b) Flow cytometry
- (c) Isolation of pure antibody

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