

PC-393
(573)M.Sc. MICROBIOLOGY (THIRD SEMESTER)
Examination, Dec-2020
Compulsory/Optional
Group-
Paper-

Name/Title of Paper- IMMUNOLOGY
Time: Three Hours

Maximum Marks: 080
Minimum Passing Marks:

नोट: दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer From Both the Section as Directed. The Figures in the right-hand margin indicate marks.

Section – A

1. Answer the following Questions:-

1x10

- (a) Give full form of Rh factor.
- (b) Which dye is used in Radioimmuno assay.
- (c) Which antibodies are specific towards only one antigen.
- (d) Name any one theory explaining antibody formation.
- (e) Give one example of Type I hypersensitivity.
- (f) Name any one complement deficient disease.
- (g) Who proposed the ABO system.
- (h) Name the types of Immunoglobulins.
- (i) Can hapten exhibit immune response independently.
- (j) Write the full form of ELISA.

2. Define the following:-

2x5

- (a) Acquired immunity
- (b) Radio immuno assay
- (c) Alloantigen
- (d) Delayed hypersensitivity
- (e) Adjuvant

Section-B

Answer all questions:-

15x4

3. Describe in detail the factors involved in acquired immunity.

Unit-I

Or

Describe organs involved in Immunity.

Unit-II

4. Describe structure and properties of Antigen. Also discuss Haptens and adjuvant with their significance in Immunology.

Or

Describe monoclonal antibodies in detail with its applications.

Unit-III

5. Describe complement fixation in detail.

Or

Describe diagnostic tests based on invitro agglutinations.

Unit-IV

6. Describe Anaphylaxis in detail.

Or

Describe Immune complex mediated reactions.