

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc., Summer 2017-18 Examination

Semester: 3
Subject Code: 11101208
Subject Name: Immunology - I

Date: 24/05/2018
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Essay type/ Brief note. (4x2) (Each of 04 marks) (08)**
 (a) Write a short note on innate immunity.
 (b) Explain the structure of immunoglobulin with figure.
- Q.1. B) Answer the following questions. (Any two)**
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2)(Each of 02 marks) (04)
 1. What is isotope?
 2. Define antigen.
 (b) Write a short note on primary lymphoid organs. (04)
 (c) Write a note on difference between B cell and T cell. (04)
- Q.2. A) Answer the following questions.**
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
 1. Explain lymph node.
 2. Explain null cell.
 (b) Write a short note on acquired immunity. (04)
- Q.2. B) Answer the following questions. (Any two)**
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. What is the basic function of immunoglobulin?
 2. What is the role of memory T cell?
 3. What is the function of dendritic cell?
 (b) Describe a mucosal associated lymphoid tissues. (03)
 (c) Write a short note on spleen. (03)
- Q.3. A) Essay type/ Brief note. (4x2) (Each of 04 marks) (08)**
 (a) Write a note on ELISA.
 (b) Write a note on passive antibody therapy.
- Q.3. B) Answer the following questions. (Any two)**
 (a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
 1. What is antibody avidity?
 2. Define hypersensitivity.
 (b) Write a short note on flow cytometry. (04)
 (c) Short note on western blot technique. (04)
- Q.4. A) Answer the following questions.**
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
 1. Explain agglutination reaction.
 2. Explain precipitation reaction.
 (b) Write a short note on blood grouping system. (04)
- Q.4. B) Answer the following questions. (Any two)**
 (a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
 1. What is the role of IgE?
 2. Who discover blood grouping system?
 3. What is the role of IgG?
 (b) Write a short note on RIA. (03)
 (c) Write a short note on immunofluorescence. (03)