# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

## **BSc DEGREE EXAMINATION DECEMBER 2017**

(Fifth Semester)

#### Branch - MICROBIOLOGY

# **IMMUNOLOGY**

Time: Three Hours

Maximum: 75 Marks

# **SECTION-A (20 Marksl**

Answer ALL questions

**ALL** questions carry **EQUAL** marks  $(10 \times 2 = 20)$ 

# Write a note on the following:

- 1 NK cells.
- 2 Thymus.
- 3 Adjuvants.
- 4 IgA.
- 5 Attenuated Vaccine.
- 6 Interleukins.
- 7 RIA.
- 8 Complement.
- 9 Xenograft.
- 10 Allergens.

#### **SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks  $(5 \times 5 = 25)$ 

11 a Explain the structure and functions of bone marrow.

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b Write the difference between primary and secondary immune response.

12 a Write the structure and functions of IgG antibody.

OR

b Write short notes on alternative complement pathways.

13 a Write the differences between humoral and cell mediated immunity.

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b Write short notes on antigen presentation.

14 a Explain complement Fixation test.

OR

b Explain the principle of Immuno fluroscence.

15a Write short notes on tissue typing.

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b Explain Type II hypersensitivity reaction with example.

## **SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks  $(3 \times 10 = 30)$ 

- What is meant by immunity. Write their types.
- Explain the structure and functions of Ig M antibody.
- Explain thetechniques behind monoclonal antibody and its applications.
- Explain thetechniques behind ELISA and add a notes on its applications.
- What is meant by hypersensitivity? Explain type I hypersensitivity reactions.

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