



SN – 418

V Semester B.Sc. Examination, Nov./Dec. 2017
(F + R/CBCS)
BIOTECHNOLOGY – VI
Immunology and Animal Biotechnology

Time : 3 Hours

Max. Marks : 70

Instruction : Draw a *neat* labelled diagrams *wherever* necessary.

SECTION – A

I. Write short notes on the following :

- 1) Acquired immunity.
- 2) Antigens.
- 3) Blood cell components.
- 4) Erythropoietin.
- 5) Transformed cells.

(5×2=10)

SECTION – B

II. Answer **any four** of the following :

- 6) Explain humoral immunity.
- 7) Write a note on ABO Blood grouping system.
- 8) What is Immunization ? Explain.
- 9) Explain serum free media with examples.
- 10) Give an account on expression vectors.

(4×5=20)

SECTION – C

III. Answer **any three** of the following :

- 11) Explain the technique of enzymatic disaggregation of the tissue.
- 12) Write the principle, protocol and application of ELISA.
- 13) Discuss the role of Antibodies in Allergic reactions.
- 14) What is a vaccine ? Explain peptide and DNA vaccine.
- 15) What is transfection ? Explain in detail.

(3×10=30)

P.T.O.



SECTION - D

(1x10=10)

IV. Answer the following :

- 16) Define passive immunity.
- 17) What are epitopes ?
- 18) What are lymphocytes ?
- 19) Expand RIA.
- 20) What is attenuation ?
- 21) What is serum ?
- 22) Expand PDGF.
- 23) What is cloning ?
- 24) Name the person who discovered monoclonal antibodies.
- 25) What is Biopharming ?

SECTION - B

(4x5=20)

SECTION - C

(3x10=30)