SECTION – B

Immuniology

VI. Answer any two.

(Weight 2 each)

19) Comment on appluination.

20) Account on autoimmune reactions.

21) What are antibodies ? What are their functions ?

22) Chalogoish between cell mediated and humoral immunity.

(2x2=4)

VII. 23) Match the following.

(Weight 1)

a) Opschisstion Autoimmune response

b) 1gM Incomplete antigons

c) Hapters Antibody

d) Graves disease Complement system

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K16U 2261

Reg. No.	:
Name :	

III Semester B.Sc. Degree (CCSS - Supple./Imp.)
Examination, November 2016
CORE COURSE IN ZOOLOGY
(2009 Admission)

3B03ZLG: Cytology and Immunology

Time: 3 Hours

Max. Weightage: 25

SECTION - A SECTIO

(Cell Biology)

I. Essay (answer any one).

(Weight. 4)

- 1) What is cell cycle? Explain the stages of cell cycle.
- 2) Explain the structure and functions of Golgi complex.
- II. Essay (answer any one).

(Weight. 4)

- Account on the principle, working mechanism and applications of light microscopy.
- 4) Give an account on the structure and function of plasma membrane.
- III. Short essay (answer any three).

(Weight. 2 each)

- 5) Discuss on benign and malignant tumours.
- 6) Differentiate between prokaryotes and eukaryotes.
- Discuss on the hypothesis about cancer.
- 8) Give an account on cell theory and its modern concept.
- 9) What is crossing over ? Write on its significance.

 $(3 \times 2 = 6)$

P.T.O.

IV.	Short answers	answer any	four)
	Official answers	answer arry	1001

(Weight. 1 each)

- Explain giant chromosomes.
- 11) Define endomitosis.
- 12) What are peroxisomes?
- 13) Comment on the use of oil immersion objective.
- 14) Name any two vital stains.
- 15) What are the functions of mitochondria?
- Give the significance of meiosis.

 $(4 \times 1 = 4)$

V. Answer the following.

(Weight, 1 each)

- 17) a) ______ is the term for intake of solid substance into the cell.
 - n) _____ micrometer is used in eyepiece.
 - c) _____ is a white blood cell.
 - d) _____ is the power house of the cell.
- 18) Match the following:
 - a) Zygotene

Electron microscopy

b) Lead acetate

Golgi complex

c) Thelytoky

Mitosis

d) Electron transport chain

Parthenogenesis

Mitochondria

Meiosis

 $(2 \times 1 = 2)$



SECTION-B

Immunology

VI. Answer any two:

(Weight. 2 each)

(Weight. 1)

- 19) Comment on agglutination.
- 20) Account on autoimmune reactions.
- 21) What are antibodies? What are their functions?

22) Distinguish between cell mediated and humoral immunity. (2x2=4)

VII. 23) Match the following.

a) Opsonisation Autoimmune response

b) IgM Incomplete antigens

c) Haptens Antibody

d) Graves' disease Complement system

Cell mediate immunity