Reg. No. : .....

(Pages : 2)

D – 2627

Name : .....

Fifth Semester B.Sc. Degree Examination, December 2017
First Degree Programme under CBCSS
ZOOLOGY
Core Course – VII
ZO 1542 : Immunology and Microbiology
(2015 Admission)

Time : 3 Hours

Max. Marks : 80

Instruction : ***Draw*** *diagrams* ***wherever*** *necessary.*

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I. Answer the following questions (In **one** or **two** sentences. **One** mark **each**) :

1) Immune system
2) Allergens
3) Father of immunology
4) Phagocyte
5) Cardinal signs of inflammation
6) MAC
7) Prokaryotes
8) Peptidoglycan
9) Bacteriophage
10) Aflatoxin.

(10×1=10 Marks)

II. Answer **any eight** of the following. (**Not** to exceed **one** paragraph. **Each** carries **2** marks.)

11) Plasma cells
12) Thymus
13) Epitopes
14) Opsonization
15) Agglutination test

P.T.O.

16) Lymph nodes
17) DNA vaccine
18) Mycoplasma
19) AIDS
20) Cyanobacteria
21) GMOs
22) Plasmids. **(8×2=16 Marks)**

III. Answer **any six** of the following. (**Not** to exceed **120** words. **Each** carries **4** marks).

23) Widal test
24) T-Lymphocytes : Types and Activation
25) MHC
26) Granulocytes
27) Complement system
28) Structure of a typical virus
29) Microbes in Agriculture
30) Plasmodium
31) Pathogenic microbes. **(6×4=24 Marks)**

IV. Answer **any two** of the following (**Each** carries **15** marks).

32) Write an essay on immunoglobulins.
33) Give an account on immunization.
34) Describe the modern methods for the classification of Eubacteria.
35) Write an essay on symbiotic microbiota. **(2×15=30 Marks)**

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