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RNLKWC/B.A.-CBCS/VS/MB/H/C12T/21

2021

Microbiology

[HONOURS]

(CBCS)

(B.Sc. Fifth Semester End Examinations-2021)

PAPER-C12T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group-A

Answer any five from the following:

5x2= 10

1. Differentiate between Active and passive Immunity. 2
2. In Acquired immunity, lymphocyte receptors provide pathogen – specific recognition – validate the statement. 2
3. What is MALT? 2
4. State the function of lymph nodes in immune system. 2
5. What is Epitope and Hapten? 1+1
6. What is SCID? 2
7. What is monoclonal antibody?
8. Write down the principle of radial immune diffusion method 2

(2)

Group-B

Answer any four from the following :

4x5 = 20

1. Write a short note on :
a) B-cell and b) Mast cell $2\frac{1}{2} + 2\frac{1}{2}$
2. Write down the function and properties of different types of antibodies. 2+3
3. All immunogen are antigen, but all antigens are not immunogen-justify your answer. 5
4. Write down the principle of Immune fluorescence Assay (IFA). What are the types of IFA? State its advantages and limitations. 1+2+1+1
5. Write a short note on alternative pathway for activation of complement system. 5
6. State the principle of Immunoprecipitation. Write down its general procedure. State advantages. 1+3+1

Group -C

Answer any one of the following :

10x1 = 10

- 1) Write short note on the following $2\frac{1}{2} + 2\frac{1}{2} \times 4$
 - a) Major Histocompatibility Complex.
 - b) The zonal Phenomenon.
 - c) Agglutination Reaction.

(3)

d) Haematopoiesis.

- 2) Mention one method of cell immobilization.

Write about its advantages and disadvantages.

Describe why up stream processing is necessary for any fermentation process. What do you mean by industrial strain improvement? 1+(2+2)+3+2
