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(vi) Covid 19

(b) Discuss any **three types** of vaccines with suitable examples. (6)

(c) Give an example of an APC. (1)

6. (a) Give an important function of the following: (**any four**) (1x4=4)

(i) Bone marrow

(ii) Thymus

(iii) NK cells

(iv) Lymph nodes

(v) Plasma Cells

(b) Give one word answer for the following: (**any four**) (1x4=4)

(i) A pathogen causing Wool Sorter's disease

(ii) Macrophages found in lungs

(iii) An Effector cells secreting antibodies

(iv) A pentameric antibody

(v) A pathogen causing Lock jaw

(c) Discuss the symptoms and transmission of malaria or AIDS. (4)

(100)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5115 . J

Unique Paper Code : 2534001202

Name of the Paper : Microbes in Infectious Diseases (GE)

Name of the Course : Microbiology

Semester : VI (UGCF)

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll. No. on the top immediately on receipt of this question paper.
2. Attempt **any five** questions.
3. All questions carry **equal** marks.
4. Attempt all parts of a question **together**.

P.T.O.

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1. Define the following terms, and give suitable examples wherever necessary (**any six**): (2x6=12)

- (a) Virulence factor
- (b) Incubation period
- (c) Opsonin
- (d) Cytokines
- (e) Hapten
- (f) Adjuvant
- (g) Reservoir

2. Differentiate between the following, giving examples wherever necessary (**any three**): (4x3=12)

- (a) Innate and Adaptive immunity
- (b) Opportunistic and Nosocomial infections
- (c) Active and Passive Immunity
- (d) Endotoxin and Exotoxin

3. Write a short note on the following: (**any three**) (4x3=12)

- (a) Characteristics of an antigen

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- (b) Cell mediated immunity
 - (c) Routes of transmission of an infectious disease
 - (d) Symptoms and mode of transmission of tuberculosis
4. (a) Explain the structure and function of the spleen, along with a well-labelled diagram. (6)

OR

- (a) Discuss the types and functions of antibodies. (6)
 - (b) Briefly explain the course of an infectious disease. (4)
 - (c) Expand the terms 'PRR' and 'ADCC'. (2)
5. (a) Write the causative agent of the following: (any five) (5)
- (i) Candidiasis
 - (ii) Tetanus
 - (iii) Amoebiasis
 - (iv) Histoplasmosis
 - (v) Athlete's foot

P.T.O.