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5. (a) What are primary lymphoid organs? Draw a well labelled diagram of any primary lymphoid organ studied by you. (6)

OR

Briefly explain any three types of vaccines giving an example of each type. (6)

- (b) Enlist the steps involved in the pathogenesis of a bacterial disease. (4)

- (c) What is the difference between immunization and vaccination? (2)

6. Write short notes on **any three** of the following: (4x3=12)

- (i) Course of an infectious disease
- (ii) Structure of an antibody
- (iii) Virulence and its determinants
- (iv) Characteristics of an antigen

(100)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4774

J

Unique Paper Code : 2534001202

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

Name of the Course : **Microbiology**

Semester : IV (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**.
-
1. (a) Name the causative agents of the following diseases (**any six**): (1x6=6)
 - (i) Athlete's foot

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(ii) Tetanus

(iii) Amoebiasis.

(iv) Malaria

(v) Anthrax

(vi) Histoplasmosis

(vii) Chicken pox

(b) What is an adjuvant? Give an example and its use in a vaccine formulation. (4)

(c) Expand the terms 'APC' and 'MALT'. (2)

2. Differentiate between the following terms citing suitable examples wherever necessary (**any three**).
(4x3=12)

(a) Endotoxins and Exotoxins

(b) Primary and secondary immune response

(c) Acute and chronic infection

(d) Innate and adaptive immunity

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3. (a) Give an example of the following (any six):
(1x6=6)

(i) A dimeric immunoglobulin

(ii) An opportunistic infection

(iii) Macrophages found in liver

(iv) A vector borne disease

(v) An adhesion factor

(vi) A fomite

(vii) A nosocomial infection

(b) Discuss the various means of transmission of infectious diseases, citing suitable examples. (6)

4. Write the symptoms and modes of transmission of **any four** diseases:
(3x4=12)

(i) Tetanus

(ii) Covid 19

(iii) Candidiasis

(iv) Tuberculosis

(v) AIDS

P.T.O.