

**2022**

**Multi Skilled Health Worker (MSHW)  
(B.Voc. Third Semester End Examination-2022)**

**PAPER-301T**

**[Medical Microbiology and Immunology]**

**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**

- 1. Answer any five question of the following: 5x2 = 10**
- a. What do you mean by total count and viable count?
  - b. What do you mean by APC and ADCC.
  - c. Define paratop and epitop?
  - d. Define binary fission
  - e. Define generation time?
  - f. Define artificial innate immunity.
  - g. Write the name of two causative agent for covid-19 and Swain-flu.
  - h. Define opsonination.

(2)

**Group-B**

2. Answer any four questions of the following: 4x5 = 20

- a) i) What is flea borne disease?  
ii) Mention the symptoms of this disease. 2+3
- b) Briefly discuss the two intrinsic parameter & two extrinsic parameter that effect bacterial growth curve. 5
- c) i) Write the difference between immunodeficiency disease and auto-immune disease.  
ii) How Taeniasis are controlling? 3+2
- d) Briefly discuss the bacterial growth curve. 5
- e) i) Explain the important characteristics of acquired immune response  
ii) Write the characteris of ideal culture media. 3+2
- f) i) What do you mean by tissue engineering?  
ii) Briefly discuss the types of grafting and mention its importants. 2+3

**Group-C**

3. Answer any one question of the following: 1x10=10

- a) i) Through modquito which types of paracites are spreaded in human?  
ii) Mention the three suscecive stages and symptoms of malaria.  
iii) How do you control malaria?
- iv) Which drugs are use in malarial disease? 1+4+4+1

(3)

- b) i) Briefly discuss the cell wall of gram positive and gram negetive bacteria.  
ii) Write a short note on streak plate and pour plate method of isolation.  
iii) Briefly discuss the incineration and Hot air oven sterilization method. 4+4+2
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