

2013

( July )

MICROBIOLOGY

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

Answer **all** questions

1. Fill in the blanks:

1 × 10 = 10

- a) Glass vessels and glass syringes are best sterilized by .....
- b) The number of bacterial cell is increased in the ..... phase of bacterial growth.
- c) ..... stain is used to stain Mycobacterium tuberculosis.
- d) ..... is called secretory immunoglobulin.
- e) Acute rheumatic fever is associated with ..... infection.
- f) Drumstick appearance is seen in ..... bacteria.
- g) Hbs Ag test is used for diagnosis of .....
- h) HIV attacks ..... cells.
- i) Cholera is caused by .....
- j) Kala-azar is caused by .....

2. Write briefly on any two:

8 × 2 = 16

- a) Chemical sterilization
- b) Bacterial culture
- c) Polio virus

3. Answer the following:

2 × 8 = 16

- a) What is active immunity?
- b) What is pasteurization?
- c) Name two causes of diarrheal diseases in man
- d) Write two examples of agglutination reaction.
- e) Name two viruses causing central nervous system infection.

Turn Over

( 2 )

- ✗ f) What is a virus?
- ✗ g) Name two protozoa causing intestinal infection.
- ✗ h) Name two fungi causing opportunistic infections.

4. Name the bacteria causing diphtheria. Describe the laboratory diagnosis of diphtheria. Write the prophylactic measures against this infection. 1 + 5 + 2 = 8

5. Write short notes on (*any five*) 5 × 5 = 25

- ✓ a) Immunoglobulins ✗
- ✓ b) Superficial mycosis ✗
- ✗ c) Acid fast bacilli
- ✓ d) Malaria ✗
- ✓ e) Gram stain
- ✓ f) HIV ✗

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