

2012

(May)

Microbiology

Full Marks : 75

Time : 3 hours

Answer **all** questions

The figures in the margin indicate full marks for the questions

1. Fill in the blanks : 1 × 10 = 10
- a. Fermentation is used to sterilize culture media.
 - b. Acute Rheumatic fever occurs following _____ bacterial infection.
 - c. Anaphylaxis reaction occurs mainly due to release of chemical substances, including histamine
 - d. Disposable syringes are sterilized by Gamma radiation
 - e. _____ is between living and nonliving.
 - f. _____ is a unicellular fungi.
 - g. Enteric fever is caused by Salmonella Paratyphi bacteria.
 - h. Amoebiasis is caused by _____ parasite.

(Turn Over)

(2)

- i. Hepatitis C virus is transmitted by Parenteral route.
- j. Japanese B encephalitis occurs following bite by infected mosquito.

2. Write briefly about *any two* of the following : $8 \times 2 = 16$

- a. Use of chemical agents as antiseptic or disinfectant in hospital.
- b. Bacterial flagella
- c. Various methods for viral culture

3. Answer the following : $2 \times 8 = 16$

- a. Name two methods of pasteurization.
- b. Name two enrichment media.
- c. Name two pathogens that cross the placenta and infect the foetus in utero. *Small pox, syphilis, malaria*
- d. What is artificial active immunity?
- e. Name two bacteria causing meningitis. *Strepto Cocci pneumoniae*
- f. What is agglutination reaction?
- g. What is Chlamydiae trachomatis?
- h. Name the fungi causing fungal meningitis. *Neisseria meningitidis Cryptococcus*

4. Classify Mycobacteria. Describe the laboratory diagnosis of pulmonary tuberculosis. $3 + 5 = 8$

(3)

5. Write short notes on : (*Any five*)

5 × 5 = 25

- a. Polio vaccine
- b. Aspergillosis
- c. Difference between active immunity and passive immunity
- d. Type II Hypersensitivity reaction
- e. Malarial fever
- f. Round worm infection

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SS/BSN/MIC/5-12