SS/BSN-1/MIC/03-19

2019

(March)

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 : 10x1=10
    (a) _____ is known as father of Microbiology.
    (b) _____ is the organ of locomotion.
    (c) _____ stain is used to identify the Acid Fast Bacilli.
    (d) Typhoid fever is diagnosed by _____ test.
    (e) _____ is a sexually transmitted disease.
    (f) Clostridium tetani is the cause of _____.
    (g) _____ introduced the concept of vaccine.
    (h) Immunoglobulin that can cross placental barrier is _____.
    (i) _____ is an example of live vaccine.
    (j) The method of sterilization of milk is _____.

2. Define the following terms :   5x1=5
   (a) Microbiology (b) Antigen (c) Disinfection
   (d) Agglutination (e) Vaccine
3. Write in brief : (any three)   3x3=9
   (a) Koch's postulates
   (b) Antigen – Antibody reaction
   (c) Morphological classification of bacteria.
   (d) Bacterial flagella.
4. Identify the differences between : (any four)   4x2=8
   (a) Sterilization & Disinfection
   (b) Active immunity & Passive immunity
   (c) Antigen & Antibody
   (d) Gram +ve & Gram –ve bacteria
   (e) Eukaryote & Prokaryate
5. Write the following essays : (any two)   8x2=16
   (a) Bacterial growth curve
   (b) Hypersensitivity
   (c) Physical methods of sterilization
6. Write short notes on the following : (any three)   5x3=15
   (a) Culture media
   (b) Laboratory diagnosis of Malaria
   (c) Nosocomial infection
   (d) Importance of Microbiology for nurses.
7. Define Immunity. Classify Immunity. Explain the mechanism
   of innate immunity.   2+4+6=12

                            Or

Name the bacteria causing tuberculosis. Explain its laboratory
diagnosis. Write down the Preventive measures to control the
spread of tuberculosis.   2+6+4=12

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