

B.Sc.(N) [Post Basic (1st Year)]

BF/2010/05

Microbiology

[New Scheme-w.e.f. 2007 admission]

M.M. : 75

Time : 3 Hours.

Note: Attempt FIVE questions only. Q.No. 1 is COMPULSORY.

1A. Give one word answer of the following: [10x1=10]

1. Cholera is caused by _____.
2. Amoebic dysentery is caused by _____.
3. Kala-azar is caused by _____.
4. Vector for transmission of malaria _____.
5. Term used for diseases transmitted from animals to humans _____.
6. Filariasis is caused by _____.
7. AIDS is caused by _____.
8. Syphilis is caused by _____.
9. Negri bodies are found in the cells infected with the _____ virus.
10. Diphtheria is caused by _____.

1B. Pick up the most appropriate answer: [5x1=5]

1. Antibody which cannot cross the placenta :
 - a. I_g G
 - b. I_g M
 - c. I_g E
 - d. I_g A
2. Examples of beta hemolytic streptococcus :
 - a. Streptococcus viridans.
 - b. α hemolytic streptococci.
 - c. Streptococcus pyogenes.
 - d. Streptococcus pneumoniae.
3. All except one are 'dimorphic' fungi :
 - a. Cryptococcus neoformans.
 - b. Histoplasma.
 - c. Coccidioides immitis.
 - d. Aspergillus fumigatus.
4. Hydatid disease is caused by :
 - a. Tinea solium.
 - b. Ascaris lumbricoides.
 - c. Echinococcus granulosus.
 - d. Tinea saginata.
5. 'Tuberculin' testing is based on which type of hypersensitivity reaction :
 - a. Type I
 - b. Type II
 - c. Type III
 - d. Type IV

P.T.O.

- 1C. **Fill in the blanks:** [4x1=4]
1. Botulism is caused by _____.
 2. Bacillus anthracis causes the disease known as _____.
 3. Whooping cough is caused by _____.
 4. Name the vaccine to prevent rabies _____.
2. **Write short notes on any FOUR of the following:** [4x3¹/₂=14]
- a. Autoclave.
 - b. Zeihl-Neelsen staining.
 - c. MMR vaccine.
 - d. Cryptocococcus infections.
 - e. Arbo viruses.
 - f. Mycetoma.
 - g. Selective media.
 - h. Laboratory diagnosis of rabies.
3. Classify pathogenic fungi. Enumerate the fungi causing systemic fungal infections and write about their laboratory diagnosis. [4+3+7=14]
4. Enumerate nematodes causing human diseases. Write laboratory diagnosis of any two of them. Write about the life cycle of round worms. [3+6+5=14]
5. What is immunity. Write down about different types of immunity giving examples. Write down the differences between active and passive immunity. [3+6+5=14]
6. Enumerate the agents transmitted by 'sexual' route. Write about laboratory diagnosis of gonorrhoea in detail. [6+8=14]
7. **Write briefly on:** [7+7=14]
- a. Dengue fever.
 - b. Candida albicans.
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