

B.Sc. RESPIRATORY THERAPY
FIRST YEAR
PAPER II – MICROBIOLOGY AND PATHOLOGY

Q.P. Code: 802602

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Enumerate the components of a bacterial cell. Differentiate the cell wall of gram positive and gram negative cell wall with suitable diagrams.
2. Classify the physical agents of sterilisation. Describe the principle, mechanism of working and uses of the autoclave. Write about its sterilisation control.
3. Describe the various methods of transmission of disease with suitable examples.

II. Write Notes on:

(8 x 5 = 40)

1. Bacterial spore.
2. Testing of disinfectants.
3. Smear microscopy for diagnosis of tuberculosis.
4. Legionnaire's disease.
5. Standard precautions.
6. Apoptosis.
7. Etiological agents of lower respiratory tract infections.
8. Biomedical waste segregation.

III. Short Answers on:

(10 x 3 = 30)

1. Personal protective equipment.
2. Volutin granules.
3. What is plasma sterilization? Give two examples.
4. Mantoux test.
5. C Reactive protein.
6. Write three types of flagellar arrangement with examples.
7. Classify bacteria based on their shape.
8. Name three methods of dry heat sterilization.
9. Ghon focus.
10. Name three cellular adaptations to stress.
