

Reg. No: .....

**Second Year B.Sc Perfusion Technology Degree Regular/Supplementary  
Examinations February 2025**

**Applied Pathology & Applied Microbiology  
(2016 Scheme)**

**Time: 3 Hrs**

**Max. Marks:100**

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary
- Write Section A and Section B in separate answer books. Do not mix up questions from Section A and Section B

**Q P Code: 211016**

**Section A – Applied Pathology**

**Marks: 50**

**Essays:**

**(2x10=20)**

1. Define and classify Anaemia. Describe its clinical manifestation and lab diagnosis.
2. Describe risk factors and pathogenesis of Atherosclerosis. Discuss about the clinical significance and its complications.

**Short notes:**

**(4x5=20)**

3. Write briefly on Pyelonephritis.
4. Pathophysiology of heart failure.
5. Types of pneumoconiosis and their complications.
6. Write briefly on Hemophilia.

**Answer briefly:**

**(5x2=10)**

7. Name two cyanotic congenital heart diseases.
8. Name two causes of agranulocytosis.
9. What are the clinical symptoms of renal diseases.
10. Name two causes of pulmonary edema.
11. Write two complications of chronic obstructive pulmonary disease.

**Q P Code: 212016**

**Section B – Applied Microbiology**

**Marks: 50**

**Essays:**

**(2x10=20)**

1. List the pathogens causing catheter related urinary tract infections. Describe collection, transport and processing of specimen. Describe in detail about preventive measures to be taken
2. Enumerate infections transmitted through blood. Describe in detail about laboratory diagnosis and prevention of any one of this.

**Short notes:**

**(4x5=20)**

3. Ethylene oxide sterilization
4. Catheter related blood stream infection
5. Cleaning and sterilization of heart lung machine
6. Ventilator Associated Pneumonia (VAP)

**Answer briefly:**

**(5x2=10)**

7. Glutaraldehyde
8. Vancomycin resistant enterococci
9. Name four pathogens transmitted by faeco oral route
10. Name four antiseptics
11. Holding time, pressure and temperature of autoclave

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