

**Second Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2024**

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. Describe the causes, mechanism and lab diagnosis of acute renal failure
2. Define and classify ischemic heart disease. What is the pathogenesis and list three main complications

Short notes:

(4x5=20)

3. Pathogenesis of cardiac failure
4. Classification of hemolytic anemia
5. Agranulocytosis
6. Types of pneumoconiosis and their complications

Answer briefly:

(5x2=10)

7. Histology of atheroma.
8. What are the morphological types of anemia
9. Name two common bleeding disorders
10. Name two causes of obstructive uropathy
11. Name two non-cyanotic congenital heart diseases.

Q P Code: 212016

Section B – Applied Microbiology

Marks: 50

Essays:

(2x10=20)

1. Define sterilisation. Classify different methods of sterilisation. Write in detail about autoclave and its clinical applications (marks 1+2+7).
2. List the blood borne pathogens. What are the precautions to be taken to prevent such infections. Briefly describe post exposure prophylaxis.

Short notes:

(4x5=20)

3. Personal protective equipments
4. Infection control measures for intensive care units
5. Biomedical waste management
6. Disinfectants used in hospitals

Answer briefly:

(5x2=10)

7. Ventilator Associated Pneumonia (VAP)
8. Sporidical disinfectants
9. Prophylaxis of Tetanus .
10. Barrier nursing
11. Methicillin resistant staphylococcus aureus
