

Reg. No:

**Second Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations February 2022**

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. Discuss aneurysms. Discuss the classification, pathology and complications of aneurysms.
2. Classify anaemias. Discuss the laboratory diagnosis of anaemias.

Short notes:

(4x5=20)

3. Obstructive uropathy.
4. Agranulocytosis.
5. Differences between obstructive and restrictive pulmonary diseases.
6. Pericardial effusion.

Answer briefly:

(5x2=10)

7. Four examples of haemolytic anaemias.
8. Four causes of lymphocytosis.
9. Four complications of chronic renal failure.
10. Two common clinical manifestations of haemophilia.
11. Two causes of pleural effusion.

Q P Code: 212016

Section B – Applied Microbiology

Marks: 50

Essays:

(2x10=20)

1. Define sterilization and disinfection. Classify different methods of sterilization. Describe the principle of working of hot air oven and their controls of sterilization.
2. Describe in detail the components of standard precautions for prevention of hospital acquired infections.

Short notes:

(4x5=20)

3. Describe the most appropriate method of sterilization of following articles and their rationale
a) cardiac catheters b) single use prepacked plastic syringes c) stainless steel surgical instruments d) glass wares e) paraffin oil
4. Gaseous disinfectants.
5. Catheter related blood stream infections and their prevention.
6. Disinfection of patient care instruments.

Answer briefly:

(5x2=10)

7. Mention three drug resistant nosocomial pathogens
8. Mention four blood borne transmitted viruses.
9. Enumerate methods of sterilization of operating rooms.
10. Mechanisms of plasma sterilization.
11. Four bacteria causing catheter related urinary tract infections.
