Reg. No: ……...

Second Year B.Sc Perfusion Technology Degree Supplementary Examinations March 2020

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 anemia. Mention the lab investigations to diagnose anemia
2. Define hypertension. Describe the types, the pathogenesis and complications of hypertension

Short notes: **(4x5=20)**

3. Classification of aneurysms
4. Differentiation of obstructive and restrictive pulmonary disease
5. Pyelonephritis - causes and types
6. Causes of pleural effusion

Answer briefly: **(5x2=10)**

7. What are the types of emphysema.
8. Name four complications of Ischemic heart disease
9. Name two causes of pericardial effusion
10. Name four lab tests for bleeding disorders
11. Name two causes of chronic renal failure.

Q P Code: 212016 Section B – Applied Microbiology Marks: 50

Essays: **(2x10=20)**

1. List the pathogens causing catheter related urinary tract infections. Briefly describe the sample collection, transport, processing of catheter samples. Add a note on culture and sensitivity testing of drug resistant urinary pathogens
2. Define sterilization and disinfection. Classify methods of heat sterilization. Describe briefly the working of a hot air oven and its clinical application.

Short notes: **(4x5=20)**

3. Describe briefly the cleaning, disinfection and sterilization of instruments used in patient care. Compare the advantages of various methods.
4. Standard bio-safety measures
5. High level disinfectants
6. Post exposure prophylaxis

Answer briefly: **(5x2=10)**

7. ETO sterilization
8. Hypochlorites
9. Blood borne pathogens
10. Bio-safety cabinets
11. Vancomycin resistant enterococci

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