### SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year Semester-III

September 2021 Examination

**B.Sc. Respiratory care Technology** 

Time: 3 Hrs.

Paper – I

[Max. Marks: 100]

Applied Pathology & Microbiology

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for Section A & B)

Section - A

Applied Pathology (50 Marks)

Q.P Code :J3855

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$ 

1. Define and Classify anemia? Describe the etiology and laboratory findings in megaloblastic anemia?

2. Define and Classify hypertension? Describe the pathogenesis and effects of hypertension?

SHORT ESSAY (Answer any three)

 $3 \times 5 = 15 \text{ Marks}$ 

- 3. Describe the sequential gross and microscopy findings in myocardial infarction?
- 4. Classify Congenital Heart diseases and describe the findings in Coarctation of Aorta
- 5. Describe the etiology, morphology and effects in Mitral Stenosis
- 6. Classify aneurysms and describe the morphology and effects of atherosclerotic aneurysm?
- 7. Describe the clinical features and laboratory findings in Chronic Myeloid leukemia

SHORT ANSWERS (Answer any five)

 $5 \times 3 = 15 \text{ Marks}$ 

- 8. Define heart failure and list 02 causes of heart failure
- 9. Describe the laboratory findings in sickle cell anemia
- 10. Describe the laboratory findings in hemophilia
- 11. Classify cardiomyopathy
- 12. List 03 causes of hemopericardium
- 13. Describe the utility of reticulocyte count and list the normal range of reticulocyte count

14. List 03 causes of delayed prothrombin time?

Section - B

Applied Microbiology (50 Marks)

Q.P Code: J3856

(Use separate answer booklet for Section-B)

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$ 

- 1. Define Ventilator associated pneumonia, its causative agents, risk factors and preventive measures (2+2+3+3)
- 2. Mention the various routes of transmission of infection in Health care workers. Discuss in detail blood borne infection in Heath care workers, its risk factors and preventive measures (2+2+3+3)

SHORT ESSAY (Answer any three)

 $3 \times 5 = 15 \text{ Marks}$ 

- 3. MRSA in hospital
- 4. Standard precautions
- 5. Enumerate the organisms and the infection control practices to prevent occupational exposure to health care workers through respiratory route
- 6. Screening of multidrug resistant organism
- 7. Linen management in health care setting

SHORT ANSWERS (Answer any five)

 $5 \times 3 = 15 \text{ Marks}$ 

- 8. Mention the steps of hand hygiene
- 9. Mention three microbiological sampling methods
- 10. Name three vaccines recommended for health care worker
- 11. Colour coded bins used in biomedical waste management
- 12. Three infection transmitted to healthcare workers through feco-oral route
- 13. Three common organisms associated with catheter related urinary tract infection
- 14. Name three personal protective equipment

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## B.Sc. Allied Health Sciences Second Year (Semester-III)

September 2021 Examination

**B.Sc.** Respiratory Care Technology

Time: 2 Hrs.

[Max. Marks: 40]

Subject: Applied Pharmacology

Q.P Code: J3870

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

#### **LONG ESSAY**

 $1 \times 10 = 10 \text{ Marks}$ 

1. a. Classify drugs used in hypertension. Explain the mechanism of action, uses and adverse effects of enalapril (3+2+3+2)

#### SHORT ESSAY (Answer any three)

 $3 \times 5 = 15 \text{ Marks}$ 

- 2. Explain the uses and adverse effects of anticholinergic drugs (3+2)
- 3. Explain the advantages and disadvantages of intravenous route and sublingual of drug administration (2.5+2.5)
- 4. Explain the mechanism of action, uses and adverse effects of low molecular weight heparins (1.5+2+1.5)
- 5. Explain enzyme induction and inhibition with examples (2.5+2.5)

#### SHORT ANSWERS (Answer any five)

 $5 \times 3 = 15 \text{ Marks}$ 

- 6. Explain side effect, toxic effect and teratogenicity with examples
- 7. Mention three antiplatelet drugs and write three uses
- 8. Mention antifibrinolytics and write their uses
- 9. Write three uses and three adverse effects of frusemide
- 10. Mention three types of drug antagonism with examples
- 11. Mention three crystalloids and write three uses

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