



**University of Ruhuna - Faculty of Medicine**  
**Allied Health Sciences Degree Programme**

**B.Sc. Nursing Degree Programme**

**1<sup>st</sup> End Semester Examination**

**NPH 1122- Physiology I**

**SEQ paper- Part A**

**July 2016**

**Duration: Thirty (30) minutes**

**Index Number .....**

1.

1.1 Draw a clearly labeled diagram of the pressure-volume curve of the left ventricle.

(20 marks)

1.2 Explain the meaning of iso volumetric contraction of the left ventricle. (20 marks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

1.3. How is the ejection fraction of the left ventricle calculated? (20 marks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....





**University of Ruhuna - Faculty of Medicine**

**Allied Health Sciences Degree Programme**

**B.Sc. Nursing Degree Programme**

**1<sup>st</sup> End Semester Examination**

**NPH 1122- Physiology I**

**SEQ paper-Part B**

**July 2016**

**Duration: Thirty (30) minutes**

**Index Number .....**

1. A Patient is admitted to the hospital with a road traffic accident. He has multiple injuries and doctor told that the patient is in shock.

1.1 What is shock? (10 marks)

.....  
.....  
.....  
.....

1.2 List four (04) clinical features of shock. (10 marks)

.....  
.....  
.....  
.....

1.3 Outline the immediate compensatory mechanisms that occur in cardiovascular system during shock? (30 Marks)

.....  
.....  
.....  
.....  
.....  
.....  
.....

.....

.....

.....

.....

.....

.....

2.

2.1 Draw a diagram to illustrate fetal circulation.

(20 marks)

2.2 State two (02) changes that occur in fetal circulation at birth. (10 marks)

.....  
.....  
.....  
.....  
.....

2.3 Explain the reasons for those changes at birth. (20 marks)

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....



**University of Ruhuna - Faculty of Medicine**  
**Allied Health Sciences Degree Programme**

**B.Sc. Nursing Degree Programme**

**1<sup>st</sup> End Semester Examination**

**NPH 1122- Physiology I**

**SEQ paper- Part C**

**July 2016**

**Duration: Thirty (30) minutes**

**Index Number** .....

1.

1.1 What is hypoxia? (10 marks)

.....  
.....  
.....  
.....  
.....

1.2 Name types of hypoxia giving one (01) example for each. (20 marks)

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

1.3. What is cyanosis?

(10 marks)

.....

.....

.....

.....

.....

.....

.....

.....

1.4 Give two (02) causes for central cyanosis.

(10 marks)

.....

.....

.....

.....

.....

2.

2.1 Write notes on the intestinal bacteria and its advantages.

(20 marks)

.....

.....

.....

.....

.....

.....

.....

.....

2.2 Briefly describe the process of defecation.

(20 marks)

.....

.....

.....

.....

.....

.....

.....

.....



2.3 What is voluntary facilitation of defecation?

(10 marks)

.....

.....

.....

.....

.....

.....

.....

