

UNIVERSITY OF JAFFNA, SRI LANKA  
UNIT OF ALLIED HEALTH SCIENCES  
First Year First Semester Basic Sciences Examination– October 2018  
AHSBP 1105 – Basic Physiology (old syllabus)  
Paper II

Date: 27.10.2018.

Time: 2 hours

**Answer all the six questions.**

1. Describe the physiological basis of the following:
  - 1.1. For measuring ESR, blood is collected in sodium citrate solution (30 Marks)
  - 1.2. Patients with liver disease have increased risk of severe bleeding (30 Marks)
  - 1.3. Tetanus toxoid is administered to pregnant ladies (40 Marks)
  
2. Describe the physiological basis of the following:
  - 2.1. Hearing ability reduces when middle ear infection causes opening of Tympanic membrane (35 Marks)
  - 2.2. Patients with blocked nose due to infection feel altered taste sensation (35 Marks)
  - 2.3. Visual acuity should be tested in bright light (30 Marks)
  
3. Describe effects of deficiency of the following hormones in children:
  - 3.1. Thyroxin (50 Marks)
  - 3.2. Growth hormone (50 Marks)
  
4. Describe:
  - 4.1. Lung volumes, capacities and ventilation rates (50 Marks)
  - 4.2. The physiological basis of hypoxia in lung infection (50 Marks)
  
5. Explain the following:
  - 5.1. Changes in blood pressure and pulse in severe haemorrhage (60 Marks)
  - 5.2. Role of kidney in regulation of blood pressure (40 Marks)
  
6. Write short notes on:
  - 6.1. Gastric emptying (30 Marks)
  - 6.2. Renal function tests (30 Marks)
  - 6.3. Puberty (40 Marks)