



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENC
SLR 202: HUMAN PHYSIOLOGY

DATE: Monday 2nd April, 2012

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS

Answer any THREE (3) questions.

1. a) Distinguish between aerobic and anaerobic respiration (2 marks)
b) Analyze the significance of the phosphagen system during physical activity (6 marks)
c) Citing its primary functions, analyze the citric acid cycle (15.3 marks)
2. a) Elaborate on the functions of the muscle tissue (6 marks)
b) Expound on the biomechanical and contractile properties that distinguish slow fibers from fast fibers (17.3 marks)
3. a) Rationalize the need for maintaining constant body core temperature (5 marks)
b) Explain the physiological mechanism of regulating body temperature (18 marks)
4. Analyze the physiological factors that affect:
a) blood pressure (12.3 marks)
b) cardiac output (11 marks)
5. a) Expound on the mechanics of breathing (17.3 marks)
b) Explain gas exchange at the alveolar tissue (6 marks)