**ST MARY’S UNIVERSITY**

**TWICKENHAM, LONDON**

MSc Degree Examination students registered for

Level **SEVEN**

Title: **Clinical Anatomy and Physiology**

Code: **SPR7013**

Semester: **RESIT**

Date: **February 27th 2019**

Time: **9:30AM – 12:30 PM**

TIME ALLOWED: **THREE** HOURS

Answer **BOTH** sections.

Section A- Answer **TWO** questions.

1. Explain the process of bone healing post fracture (25 marks). Discuss three factors that affect healing, using supporting evidence (10 marks).
2. Discuss how the prescription of exercise can promote soft tissue repair. Explain how this concept applies to different types of tissue, and make use of supporting evidence (35 marks).
3. Explain the physiological processes that occur with muscle damage (15 marks). Detail the subsequent specialised process of muscle regeneration, using supporting evidence (20 marks).

Section B – Answer **ALL THREE** questions.

1. Lower limb:

The knee joint is a modified hinge joint. Describe the functional anatomy of the knee joint complex and explain the locking mechanism of the knee (10 marks).

1. Upper limb:

Analyse the structure and function of the rotator cuff muscle group (10 marks).

1. Trunk:

Describe how the orientation of the facet joints in the lumbar spine differ from the cervical spine. Analyse the possible reasons for this orientation including the effect on movement within the lumbar spine (10 marks).

**END OF EXAMINATION**