※ 考生請注意：本試題不可使用計算機。　請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1) (20%) Describe the biomechanical behavior of articular cartilage.

2) (20%) Illustrate viscoelasticity of ligaments and tendons by two standard tests, load-relaxation test and the creep test. Plot the load-time curve and deformation-time curve, respectively, and describe the behavior.

3) (20%) What issues provide the stability of the knee? How to understand the role of each individual issue biomechanically?

4) (20%) Describe the temporal and spatial sequence of the gait cycle. Give an example to illustrate the application of gait analysis.

5) (20%) What does the difference in architecture tell you about the function of the tibialis posterior and the rectus femoris?