

※ 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. Tom is a 5 year old child with spastic diplegia. One day, he fell and injured his left ulnar nerve. Please compare the neural control between the weakness of his left hand and the spasticity presented in his legs. (16%)
2. Please compare the roles of wrist extensors, long finger flexors, and the intrinsic muscles in grasping. (14%)
3. In order to maintain an erect quiet standing posture, there are numbers of muscles participating in this activity. Please describe the muscular activity for the major joints (from bottom to top). (20%)
4. 試述髌骨在膝關節活動中主要的功能為何？(5%) 在膝關節屈曲-伸直過程中，髌骨和股骨的接觸點如何變化？(10%) 有哪些因子可能會影響髌骨在屈曲-伸直的運動軌跡 (tracking) ？(10%)
5. 足部有哪些構造和組織提供足部穩定度及吸收衝擊力的能力？(10%) 在步態過程中，身體往前推進時 (push-off)，足部周遭有哪些構造和組織可提供協助？(8%) 又這些構造和組織如何協助身體往前推進？(7%)