編號: / 518 系所:細胞生物與解剖學研究所

科目:動物學

- 1. Compare the differences of morphology and function between the erythrocyte and leukocyte? (10%)
- 2. (a) Name the elements of the heart's conducting system in order, beginning with the pacemaker.
 - (b) What are the functions of this conducting system ? (10%)
- 3. Describe the effect and its mechanism of transection or other insults on the peripheral nerve in immature and mature animals. (10%)
- 4. Define and distinguish between phototaxis and chemotaxix. (10%)
- 5. To our knowledge, the insects have better adaptability in nature competition with other species. Please list all five possible factors to explain the reason! (10%)
- 6. Please compare and contrast the digestive adaptation of a carnivore and herbivore! (10%)
- 7. Please compare and contrast the osmoregulatory problems and adaptation between marine and freshwater bony fishes! (10%)
- 8. Explain why menstruation and ovulation do not occur during pregnancy! (10%)
- 9. What is allosteric regulation of enzyme activity? (10%)
- 10. Please describe how hydrophobic and hydrophilic ligands activate intracellular signals! (10%)