

※ 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. James P. Allison and Tasuku Honjo received the 2018 Nobel Prize in Physiology or Medicine. Please describe the content of their findings. (10%)
2. Please describe the molecular mechanism in production of an action potential. (15%)
3. Please describe the role of stereocilia in mechanosensory transduction. (10%)
4. Please explain the sliding filament mechanism of muscle. (15%)
5. Please describe mechanisms in the formation of heart sounds. (10%)
6. Please describe volatile and nonvolatile acid secretion. (10%)
7. Please describe the rennin-angiotensin-aldosterone system (RAAS). (15%)
8. Please briefly describe the following terms: (15%)
  - a. Infant respiratory distress syndrome (IRDS) .....(5%)
  - b. Fenestrated capillary .....(5%)
  - c. Axon hillock .....(5%)

----- End of questions -----