

國立宜蘭大學

108 學年度暑假轉學招生考試

(考生填寫)

准考證號碼：

英 文 試 題

《作答注意事項》

- 1.請先檢查准考證號碼、座位號碼及答案卷號碼是否相符。
- 2.考試時間：80 分鐘。
- 3.本試卷共有 25 題選擇題(一題 2 分),15 題改錯題(一題 2 分),作文題(20 分),共計 100 分。
- 4.請將答案寫在答案卷上(於本試題上作答者,不予計分)。
- 5.考試中禁止使用手機或其他通信設備。
- 6.考試後,請將試題卷及答案卷一併繳交。
- 7.本試卷採雙面影印,請勿漏答。
- 8.應試時不得使用電子計算機。

【僅公告題型配分標準及一份範例題目】**I. Vocabulary 30% (請選正確單字並將其代號 AorBorCorD 填在答案卷)**

1. Gear oil dissipates the frictional heat from gearbox _____ to surroundings.

(A) assemble (B) assembling (C) assembleing (D) assembly

II. Grammar 30% (請訂正文法錯誤，只需將正確文法填在答案卷，不需重抄整句)

範例一：題目 I is a student. 答案 am

範例二：題目 I am a students. 答案 student

16. The larger the reverse bias voltage applied across the diode, the depletion layer becomes wide.

III. Reading comprehension 20% (請選出正確答案並將其代號 AorBorCorD 填在答案卷)

Spider bites cause medical problems on several levels. First, pain is noticed. It is induced by histamine, which may be a constituent of all spider venoms, but at various concentrations. This may explain the varying intensity and duration of pain caused by different species.

Physiologically, for vertebrates, pain after a spider bite is considered to be only a side-effect of the proposed main venom-enhancing function of histamine. Second, local effects occur. This primarily concerns redness at the site of the bite, itching and swelling, all together harmless reactions that usually disappear after a short time. Only sicariid spiders are able to induce dermatonecrosis as a local reaction, because their venom contains sphingomyelinase D. Third, the various neurotoxins in a spider's venom are probably the reason for systemic reactions. Overall, in most cases they seem to cause only weak effects to humans (such as headache or nausea), probably because of the low venom quantity injected.

Remarkable exceptions from the last statement are *Loxosceles* and *Latrodectus* species, where very potent venom components may, in rare cases, lead to severe systemic reactions. The venom of *Latrodectus* is special because it contains the very large latrotoxins, peptides of 110-140 kDa molecular mass. They provoke a massive transmitter release from nerve endings of vertebrates and form ion channels through cell membrane, leading to a rapid paralysis. As explained above, *Loxosceles* venom may occasionally cause severe intravascular haemolysis and disseminated intravascular coagulation that may lead to renal failure. For both spider genera, fatal issues are rare and the number of such cases may be in the range of one or a few cases per year, worldwide. While for the vast majority of people bitten by these two spider groups, the quantity of venom injected is too low to cause serious consequences, however, the situation may be more severe with children, older people persons already weakened or with a deficiency of their immune system.

31. Spider bites do NOT cause _____.

(A) pain (B) itching (C) nausea (D) failure

32. In the widow spider's venoms, _____ lead to paralyses.

(A) dermatonecrosis (B) histamine (C) latrotoxins (D) neurotoxins

IV. Writing 20% (備註: 大約 60 字即可並請寫在答案卷上)

(作文題目: **An unforgettable experience**)