

逢甲大學101學年度碩士在職專班招生考試試題 編號：3 科目代碼：

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| 科目 | 基礎科技英文 | 適用系所 | 資訊電機工程碩士在職專班中<br>科產業組 | 時間 | 100 分鐘 |
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※請務必在答案卷作答區內作答。 共 2 頁第 1 頁

一、Read the below sentences and translate them into Chinese. [20%, 5% each]

1. The results from the two experiments were not comparable.
2. The layout of the circuit diagram was shown in Figure 1.
3. Two commonly used devices were used in this study.
4. The experiment were under the control of the research personnel.

二、Read the below paragraph and translate them into Chinese. [15%]

GSM is a “cellular network”, which means that mobile phones connect to it must search for cells in the nearest vicinity. GSM networks operate in four different frequency band. Most GSM networks operate in the 900 MHz or 1800 MHz bands. Some countries such as the United States and Canada use the 850 MHz and 1900 MHz bands because the 900 and 1800 MHz frequency bands were already allocated.

三、Read the below sentences and translate them into English. [15%, 7.5% each]

1. 新機器在過去兩周功能發揮的不太好。
2. 他的發現與本研究的結果並不一致。

四、Translate the following paragraph into Chinese. (10%)

Thank you very much for accepting our invitation to speak at the 3<sup>rd</sup> International Conference on Electrical and Computer Engineering which is being held in Feng Chia University this year. Your subject, Strategies for Intelligent Machine Research, will undoubtedly attract a great of interest. We know everyone is looking forward to your lecture with knee anticipation.

五、Translate the following paragraph into Chinese. (10%)

We have considered the basic physics of transistors that are used to amplify or switch electrical signals. Semiconductor devices can be designed to converter optical energy into electrical energy, and to covert electrical signals into optical signals. We will discuss the basic principles of solar cells, photodetectors, light emitting diodes and laser diodes. The general classification of these devices is called optoelectronics.

六、Choose right answers for the following questions. (15%, 3% each)

1. In fact, I didn't see \_\_\_\_\_ there in the library.  
(a) many people  
(b) some people  
(c) hardly many people  
(d) very few people

2. She's already made her reservation for next Sunday, \_\_\_\_\_?  
(a) doesn't she  
(b) hasn't she  
(c) isn't she  
(d) hasn't it
3. Nitrogen is safer than hydrogen \_\_\_\_\_ it can not explode.  
(a) through  
(b) while  
(c) because  
(d) because of
4. "Talking about sports, what does Henry like best?" "I think he likes playing \_\_\_\_\_!"  
(a) the basketball  
(b) a basketball  
(c) basketball game  
(d) basketball
5. Today's museums differ greatly from \_\_\_\_\_.  
(a) those past  
(b) that are past  
(c) those of the past  
(d) the past

七、Translate the following terminologies into English. (15%, 3% each)

1. 積體電路
2. 工業安全
3. 頻率響應
4. 自動控制系統
5. 可靠度和準確度