

國立金門大學

102 學年度

電子工程學系碩士班考試試題

科目：英文

—作答注意事項—

考試時間：90 分鐘

題型題數：

◎ 英文翻譯為中文，共 10 題

配分：

◎ 每題 10 分，共 100 分

作答方式：

◎ 作答前請先核對答案卷上之准考證號、座位貼條之號碼及科目名稱是否相符。

◎ 答案卷上不可填寫姓名或其他與作答無關的符號。

※請先詳閱上述注意事項再行作答。

祝考試順利

《作答注意事項》

考試時間：90 分鐘。

題型題數：英文翻譯為中文，共 10 題。

計分方式：每題 10 分，共 100 分。

作答方式：請書寫於答案卷，題號應正確標示。

I. 將下列句子翻譯為中文(專有名詞可保留原文)

1. The phenomenon used to modulate the conductance of a semiconductor, or control the current in a semiconductor, by applying an electric field perpendicular to the surface is called the field effect.
2. The bipolar transistor, with two pn junctions, therefore has four possible modes of operation, depending on the bias condition of each pn junction, which is one reason for the versatility of the device.
3. The sampling theorem explicitly requires that the sampling frequency be greater than twice the highest frequency in the signal.
4. A queue is an ordered list in which all insertions take place at one end and all deletions take place at the opposite end.
5. Quantum computers are devices — still largely theoretical — that could perform certain types of computations much faster than classical computers; one way they might do that is by exploiting “spin,” a property of tiny particles of matter.
6. Sometimes, telecommunication systems are "duplex" (two-way systems) with a single box of electronics working as both a transmitter and a receiver, or a transceiver. For example, a cellular telephone is a transceiver.
7. Although millions of smartphone users enjoy checking in online, some are concerned that it poses safety risks. For example, some criminals have been reported to plan robberies by using location services to learn when a person is away from home.

8. Before humans started burning coal and oil, ocean acidity had remained about the same for around twenty million years. Researchers say that since the time of the Industrial Revolution, human activity has resulted in a 30 percent increase in ocean CO₂ levels.
9. Most of today's electronic devices, including cell phones, contain tiny amounts of certain minerals that allow the device to be smaller and more environmentally friendly. These minerals are often bought from illegal mines in places such as the Democratic Republic of the Congo (DRC).
10. Understanding the processes that drive sea-ice formation and advancement can help scientists predict the future extent of Arctic ice coverage — an essential factor in detecting climate fluctuations and change.

