

# 大同大學 101 學年度研究所碩士在職班入學考試試題

考試科目:科技英文

所別:通訊工程研究所

第 1/1 頁

註:本次考試 不可以參考自己的書籍及筆記; 不可以使用字典; 不可以使用計算器。

Please translate the following paragraphs into Chinese.

(每題20分)

1. Software-defined networks run the network control plane in software, generally on standard servers operated separately from network devices such as switches. This gives network administrators more control over traffic flows.
2. Digital systems are used extensively in computation and data processing, control systems, communications, and measurement. Because digital systems are capable of greater accuracy and reliable than analog systems, many tasks formerly done by analog systems are now performed digitally.
3. As communications technology continues its rapid transition from analog to digital, more functions of contemporary radio systems are implemented in software, leading toward the software radio. The resulting software-defined radio (or “software radio”) in part extends the evolution of programmable hardware, increasing flexibility via increased programmability.
4. A detailed explanation about the generation of a circularly polarized wave is described. In general, the polarization of a uniform plane wave describes the time-varying behavior of the electric field intensity at a given point in space. In a circularly polarized wave, the direction of the electric field intensity changes at a uniform rate with an angular velocity in either a clockwise or a counterclockwise direction.
5. The development of Fourier analysis has a long history involving a great many individuals and the investigation of many different physical phenomena. The concept of using “trigonometric sums”-that is, sums of harmonically related sines and cosines or periodic complex exponentials- to describe periodic phenomena goes back at least as far as the Babylonians, who used ideas of this type in order to predict astronomical event.