

義守大學 93 學年度二年制在職專班入學考試試題

系別	資訊管理學系	考試日期	93/7/3
考試科目	計算機概論	總頁數	2

※此為試題卷，請將答案填寫在答案卷內，未寫於答案卷內者，不予計分。

※不可使用計算機

I. 選擇下列各項符合的敘述 (30 Points)

A	Bus	F	Mobile device	K	Port
B	System unit	G	ASCII	L	Gigabyte(GB)
C	Register	H	Control unit	M	Internet
D	Byte	I	Kilobyte(KB)	N	Motherboard
E	Arithmetic/logic unit(ALU)	J	System clock	O	Binary numbering system

1. The largest and most widely used computer network, linking millions of computers all over the world.
2. 1,024 bytes.
3. A fixed-length, binary coding system widely used to represent text-based data for computer processing on many types of computers.
4. A high-speed staging area within the CPU that temporarily stores data during processing.
5. A socket on the exterior of a PC's system unit to which a device may be connected.
6. An electronic path on the motherboard or within the CPU or other computer component along which bits are transmitted.
7. Approximately 1 billion bytes.
8. The main box of a computer that house the CPU, motherboard, memory, and other devices.
9. The main circuit board of a computer, located inside the system unit, to which all computer-system components connect.
10. The numbering system that represents all numbers using just two symbols (0 and 1).
11. The part of the CPU that contains circuitry to perform arithmetic and logical operations.
12. The part of the CPU that coordinates its operations.
13. The timing mechanism which the computer system that synchronizes the transmission of instructions and data through the computer's circuits
14. A group of eight bits that represents a single character of data.

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15. A very small device, usually based on a wireless phone or pager, that can perform a limited amount of computing.

II. 解釋名詞：可使用中文(30 Points)

1. Wireless Ethernet :
2. CSMA/CD :(Carrier Sense Multiple Access with Collision Detection)
3. Asynchronous Transmission:
4. Relational Database
5. SPOOL (Simultaneous Peripheral Operation On-Line)
6. Virtual memory

III. 各種進位制的換算與計算 (20 Points)

1. $(307.7)_8 = (\quad)_{10}$
2. $(19.875)_{10} = (\quad)_2$
3. $(4B.2A)_{16} = (\quad)_8$
4. $(11101.011)_2 - (10101.101)_2 = (\quad)_2$
5. 電影或電視的播放速度為每秒 30 個畫面，在不使用壓縮技術狀態下，計算播放 3 分鐘之短片，以 320×240 pixel 的解析度，並使用 65536 色播出時，需要多少位元組？

IV. 問答：(20 Points)

1. What communications protocol does the Internet? and explain it's function?
2. List advantages and disadvantages to using a database management system