

大同大學 100 學年度 研究所 碩士在職班 入學考試試題

考試科目：計算機概論

所別：資訊工程研究所

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。

I. (30%) 由下表中選出適當的字，以拼出正確的字首縮寫 (acronym)。

(例：CPU => Central Processing Unit)

Addition	Area	Access	American	Adobe	Array	Central
Control	Connect	Context	Code	Computer	Datagram	Data
Disk	First	Fast	Fidelity	Forward	File	Graphical
Get	Garbage	Home	Host	Hyper	Independent	Internet
Interface	Input	Interchange	Instruction	Information	Locator	Language
Last	Local	Link	Logical	Master	Markup	Make
Memory	Mark	Neural	Network	Natural	Order	Only
Output	Object	Odd	Patch	Phase	Protocol	Read
Random	Rewrite	Reduced	Remember	Resource	Redundant	Test
Text	Thread	Tree	Transmission	Uniform	Universal	Unified
User	Window	Wide	World	Web	Wireless	Set

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|---------|---------|---------|----------|----------|
| 1. ROM | 2. RAM | 3. LAN | 4. TCP | 5. ASCII |
| 6. IP | 7. LIFO | 8. HTML | 9. RISC | 10. URL |
| 11. WAN | 12. UDP | 13. GUI | 14. RAID | 15. WiFi |

II. 簡答題

- (10%) What are the circuit symbols and truth tables of AND, OR, and NOT gate?
- (10%) Convert given numbers to other number system.
 - Convert $(2011)_{10}$ to binary
 - Convert $(320)_8$ to hexadecimal
- (8%) What resources are managed by the kernel of a Operation System?
- (10%) What are the differences between virtual memory and disk cache?
- (10%) What is the von Neumann architecture?
- (10%) Given the five layers of the Internet protocol stack?
- (12%) Given a binary tree as show in right side. Traverse the binary tree
 - In preorder
 - In inorder
 - In postorder

