			第 <b>1</b> 頁(共 3 月	頁)	
SA	國立雲林科技大		系所:資管系		
T	101 學年度碩士班暨碩士在	職專班招生考試試題	科目:計算機概論(3)		
第	一部分: 單選題,每題2分,共	50分。			
1.	1. A (An) is a specialized version of a linked list in which nodes can be inserted				
	only at the start of the list and de	leted only from the end c	of the list.		
	(A) queue (B) stack	(C) tree	(D) array		
2.	The set of public member functio				
	(A) constructor (B) interface				
3.	The object sends informatio				
A	(A) Response (B) Reques		(D) Session		
4.	The Apache web server cannot se (A) Peri (B) PHP	(C) Python	(D) ASP.Net		
5.	Cat 5e and Cat 6 wiring can carry				
	(A) 10 Mbps (B) 100 Mb		(D) 10 Gbps		
6.	Packet switching is most efficient	for data.			
	(A) relatively constant	(B) high-latency			
	(C) high-priority	(D) bursty			
7.	Topology is a layer concept.				
0	(A) physical (B) data link		(D) transport		
8.	In NAT, the creates new exte (A) router (B) firewall	rnal source IP addresses a (C) source host	and port numbers. (D) destination host		
Q	128.171.17.13:1234 is		(D) destination host		
2.		(C) a port number	(D) an IP address		
10.	A (An) provides an alias- ar	alternate name- for the	e variable. While passing		
	arguments, a (an) to the variable in the calling program is passed.				
	(A) value (B) address	(C) reference	(D) property		
11.	What technology could replace ur				
	(A) Bluetooth (B) 802.11	(C) UWB	(D) RFIDs		
12.	In structured systems analysis, the defines the interactions of the application with the external world.				
	(A) ERD	(B) DFD			
	(C) Context Diagram	(D) Dependency Diagra	m		
13.	ML?				
	(A) class diagrams	(B) use case diagrams			
	(C) component diagrams	(D) deployment diagrar	ns		

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14. The view of a system encompasses the threads and process that form the system's concurrency and synchronization mechanisms.				
(A) use case (B) process	(C) design (D) implementation			
15. A (An) is a structural relationship that specifies that objects of one thing are connected to objects of another.				
(A) dependency (B) generaliza	ation (C) association (D) aggregation			
16. A (An) is a java program that is hosted and run on a Web server rather than launched from a browser.				
(A) Java application	(B) JavaBean			
(C) Applet	(D) Servlet			
17. Which of the following is not associated with the concept of data type?				
(A) Strongly typed language	(B) Operator precedence			
(C) Coercion	(D) Boolean			
18. Multiple choice examination answer sheets can be evaluated automatically by				
(A) Magnetic tape reader	(B) Optical Character Reader			
(C) Optical Mark Reader	(D) Magnetic ink character reader			
19. A is one based on the stan	dard cloud computing model, in which a service			
provider makes resources, such as	applications and storage, available to the general			
public over the Internet.				
(A) Community cloud	(B) Private cloud			
(C) Public cloud	(D) Hybrid cloud			
20 is the merging of cartograph (A) MIS (B) GIS	y, statistical analysis, and database technology. (C) EIS (D) DSS			
<ul> <li>21. In software engineering, a (an) is a set of principles and methodologies for designing and developing software in the form of interoperable services.</li> <li>(A) Service-oriented architecture</li> <li>(B) Search-oriented architecture</li> <li>(C) Database-centric architecture</li> <li>(D) Event-driven architecture</li> </ul>				
22. Operating system is	•••			
(A) a collection of software routing				
(B) a collection of application programs				
(C) a collection of hardware components				
(D) a collection of input-output de				
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- 23. Which of the following is the scope of a variable?
  - (A) The type associated with the variable
  - (B) The structure associated with the variable
  - (C) The number of characters in the variable's name
  - (D) The portion of the program in which the variable can be accessed
- 24. The main benefit of IPv6 over IPv4 is \_\_\_\_\_.
  - (A) two more bits in the IP address
  - (B) two more bytes in the IP address
  - (C) the ability to support more possible hosts
  - (D) the ability to have quality-of-service guarantees
- 25. Which of the following is false?
  - (A) An XHTML element may be referred to in JavaScript by its *id* attribute.
  - (B) Only the *document* object has an *all* collection.
  - (C) An element's tag is accessed with the *tagName* property.
  - (D) The *frames* collection contains all the frames on a page.

## 第二部分:問答題,每題10分,共50分。

- 1. Discuss the capabilities that should be provided by a DBMS.
- Discuss each of the tasks of the core operating system's components process management, thread management, communication management, memory management and supervisor.
- 3. Compare connectionless (UDP) and connection-oriented (TCP) communication for the implementation of each of the following application-level or presentation-level protocols:
  - i) virtual terminal access (for example, Telnet);
  - ii) file transfer (for example, FTP);
  - iii) user location (for example, rwho, finger);
  - iv) information browsing (for example, HTTP);
  - v) remote procedure call.
- 4. Initial exchanges of public keys are vulnerable to the man-in-the-middle attack. Describe as many defenses against it as you can.
- 5. How have new iSCSI systems improved the applicability of storage area networks?