

西南大学 计算机与信息科学学院(软件学院)

《 计算机科学导论 》课程试题 【A】卷

2009～2010 学 年 第1学 期								期 末 考 试			
考试时间		120 分钟	考核方式	闭卷笔试	学生类别		本科		人数		
适用专业或科类			计算机与信息科学学院各专业					年级	2009 级		
题号	一	二	三	四	五	六	七	八	九	十	合计
得分											
签名											

阅卷须知：阅卷用红色墨水笔书写，得分用阿拉伯数字写在每小题题号前，用正分表示，不得分则在题号前写 0；大题得分登录在对应的分数框内；统一命题的课程应集体阅卷，流水作业；阅卷后要进行复核，发现漏评、漏记或总分统计错误应及时更正；对评定分数或统分记录进行修改时，修改人必须签名。

特别提醒：学生必须遵守课程考核纪律，违规者将受到严肃处理。

一. Single Choice (30 Points)

1. The physical equipment that processes data in order to create information is called the
- a) topology
- b) compiler
- c) hardware
- d) software
2. _____ type of memory will save its content when the power is off.
- a) CPU Cache
- b) RAM
- c) Printer Memory
- d) ROM
3. _____are prewritten formulas provided by the spreadsheet program that perform calculations.
- a) range
- b) function
- c) recalculation
- d) formula
4. DBMS are comprised of tables that made up of rows called _____ and columns call_____.
- a) fields, records

- b) records, fields
 - c) addresses, fields
 - d) records, range
5. In a network, the client computers will use_____ operating system.
- a) network
 - b) stand-alone
 - c) embedded
 - d) none
6. The Internet was launched in 1969 and was originally called_____.
- a) AARNET
 - b) CERNET
 - c) CERN
 - d) ARPANET
7. “www.swu.edu.cn” in a URL presents _____.
- a) client
 - b) server
 - c) the domain name
 - d) the protocol
8. ____ provides additional information and requests user input.
- a) buttons
 - b) dialog box
 - c) toolbar
 - d) pointer
9. The procedural language must be translated into machine language. _____ is a kind of translator which converts the procedures into the machine codes at a time before executed, no object code saved.
- a) compiler
 - b) assembler
 - c) interpreter
 - d) translator
10. Illustration programs are used for creating and editing _____.
- a) HTML codes
 - b) vector images
 - c) text
 - d) bitmap images
11. Programs that are make copies of files to be used in case the originals are lost or damaged are called _____.
- a) Antivirus programs
 - b) Diagnostic programs
 - c) Backup programs
 - d) Uninstall programs
-

密
封
线

12. _____ buses, connect CPU to slots on the mother board.
- a) address
 - b) data
 - c) system
 - d) expansion
13. _____ loop structure will perform the codes before checking the condition.
- a) DO UNTIL
 - b) DO WHILE
 - c) IF-THEN-ELSE
 - d) DO WHAT
14. The numbers of bits that can travel simultaneously by the CPU is known as the _____.
- a) bps
 - b) word
 - c) bus width
 - d) Byte
15. A ____ error occurs when the programmer uses an incorrect calculation or leaves out a programming procedure .
- a) syntax
 - b) programming
 - c) logic
 - d) analyst
16. These languages use abbreviations and mnemonics that make it easier for humans to understand.
- a) assembly language
 - b) machine language
 - c) C,C++
 - d) JAVA
17. _____ indicates the distance between each pixel on the monitor.
- a) Refresh rate
 - b) Resolution
 - c) Size
 - d) Dot pitch
18. Files that are broken into small parts and stored wherever space is available are said to be _____.
- a) uninstalled
 - b) fragmented
 - c) compressed
 - d) lost
19. When a program repeats as long as a certain condition remains, it is an example of a(n)

____ logic structure.

- a) IF-THEN-ELSE
- b) sequence
- c) selection
- d) loop

20. Toolbars contain small outlined areas called ____ that provide shortcuts for quick access to commonly used commands.

- a) buttons
- b) dials
- c) bullets
- d) pointers

21. Drawing programs and image editors are used for creating and editing ____.

- a) HTML codes
- b) vector images
- c) text
- d) bitmap images

22. _____ terminal provides access to the Internet and typically displays Web pages on a standard television set.

- a) dumb
- b) intelligent
- c) network
- d) internet

23. _____ is a kind of binary coding schemes which is designed to support international languages, uses 16 bits.

- a) ASCII
- b) EBCDIC
- c) Unicode
- a) Binary system

24. _____ ports are used to replace serial and parallel ports, are faster.

- a) Serial
- b) Parallel
- c) HPSB
- d) USB

25. _____ is a Window program that locates and eliminates unnecessary fragments and rearranges files and unused disk space to optimize operations

- a) Disk Cleanup
- b) Disk Defragmenter
- c) Sherlock
- d) Active Desktop

密
封
线

26. A computer's ____ produces precisely timed electrical beats or impulses.
- a) system clock
 - b) metronome
 - c) timekeeper
 - d) chronometer
27. ____ uses special preprinted characters that can be read by a light source and changed into machine-readable code.
- a) UPC
 - b) OMR
 - c) MICR
 - d) OCR
28. ____ is carried on throughout all the programming steps.
- a) coding
 - b) design
 - c) debugging
 - d) documentation
29. ____ is a sequential-access storage medium.
- a) A floppy disk
 - b) A hard disk
 - c) Magnetic tape
 - d) DVD
30. A(n) ____ chip contains essential information for computer booting, it doesn't lose its content when power is off.
- a) ROM
 - b) RAM
 - c) ALU
 - d) CMOS

二、Fill In The Blanks With The Given Terms (20 Points)

- | | |
|--------------------|--------------------|
| a. word | b. resolution |
| c. telnet | d. morphing |
| e. system bus | f. virtual reality |
| g. search engines | h. procedure |
| i. query | j. program design |
| k. general-purpose | l. sectors |
| m. RAID | n. device driver |

- | | |
|------------------|----------------------|
| o virtual memory | p procedure language |
| q head crash | r browser |
| s pointer | t warm booting |

1. _____ is one part of information system. It's the rules or guidelines for people to follow.
2. Graphics, video and audio, multimedia is the _____ application software.
3. _____ is the number of bits that can be accessed at one time by the CPU.
4. With _____ , large programs are divided into parts and the parts stored on a secondary device, usually a hard disk.
5. _____ is expressed as a matrix of these dots and pixels.
6. _____ can improve the performance of external storage, connect several hard disks to one another by a network or within specialized devices.
7. _____ is used to make the I/O devices to communicate with the computer system.
8. _____ connects the CPU to memory on the system board.
9. In the _____ step a solution is created using programming techniques such as top-down program design, pseudocode, flowcharts, and logic structures
10. _____ will happen when the read/write heads contact the surface of a hard disk.
11. _____ connects to remote computers, opens and transfers files, displays text and images, and provides in one tool an uncomplicated interface to the Internet and Web.
12. _____ are designed to express the logic—the procedures that can solve general problem.
13. _____ are specialized programs that assist you in locating information on the web and the Internet.
14. _____ is a Internet standard that allows you to connect to another computer (host) on the Internet and to log on to that computer.
15. _____ is a question or a request for specific data contained in a database.
16. _____ is a special effect in which one image seems to melt into another.
17. _____ is an artificial, or simulated, reality generated in 3-D by a computer.
18. _____ occurs when the computer is already on, and you restart it without turning off the power.
19. Mouse can control _____ and change its shape depending on its current function.
20. Each track is divided into wedge-shaped sections called _____.

三、True/False (20 Points)

1. The content of flash memory card can be lost when the power is off.
 2. Backup programs can reduce the size of files to get more free storage space.
 3. Directory search requires its users to input the keywords, which can be compared against its database, and returns a list.
 4. Graphic elements used to represent familiar object is called folder.
 5. Embedded operating system is stored the ROM of the computer devices.
-

密
封
线

6. Slot provides a connection point for small specialized electronic parts called chips.
7. "Debugging" refers to the process of eliminating syntax and logic errors.
8. Computer requires direct current to power its electronic components.
9. Serial port sends data 8 bits at a time.
10. Download is the process that copying files from your computer to another computer on the Internet.
11. The intelligent terminal hasn't hard disk, relies on a host computer.
12. Dpi is a measure of the clarity of images produced by the monitors.
13. Plug and Play is a set of hardware that allows expansion cards to install themselves.
14. CPU caching improves processing by acting as a temporary high-speed holding area between I/O devices and CPU.
15. DVD-RW is write once format.
16. C is the 4th generation programming language.
17. Unicode is used for minicomputer, 8 bits.
18. The output of printer is commonly referred to as soft copy.
19. A software suite is a collection of several programs.
20. A dumb terminal can process data independently.

四、Translate the Following Key Terms into Chinese (10 Points)

- | | |
|--------------------------|------------------|
| 1. Modem | 11. refresh rate |
| 2. LCD | 12. RAID |
| 3. AI | 13. OOP |
| 4. GUI | 14. driver |
| 5. Search Engine | 15. NIC |
| 6. ROM | 16. URL |
| 7. FTP | 17. PDA |
| 8. HTTP | 18. plug-in |
| 9. Virtual Reality | 19. DBMS |
| 10. software engineering | 20. USB |

五、Complete the following conversions between different numbering systems. (9 Points)

1. $(111110111011101)_2 = (\quad)_{10} = (\quad)_8 = (\quad)_{16}$
2. $(127.25)_{10} = (\quad)_2 = (\quad)_8 = (\quad)_{16}$
3. $X = -0.1111011$, 采用定点小数表示, 设机器字长为 8, 则 x 的原码是_____, 反码是_____, 补码是_____.

六、 Fill in the Blanks (5 Points)

1. Software that helps the computer manager its own internal resources is called _____ software.
2. _____ is programs that automatically submit your search request to several search engines simultaneously
3. _____ uses thousands of dots or pixels to represent images.
4. _____ is a communication medium for the entire computer system, every component of the system unit connects to it..
5. _____ graphically present the sequence of steps needed to solve a programming problem .

七、 Translate the Following Paragraph into Chinese (6 Points)

(a) CPU and Cache (3 points)

CPU is the Central Processing Unit (CPU) of the acronym (首字母缩略词), CPU in general by the logic operation unit, control unit and storage units. In the logic operation and the control unit includes a number of registers, the registers for the CPU in the process of processing data for temporary storage of data. Cache means that data can be exchanged for high-speed memory, it first in the memory and CPU to exchange data, so fast, it is also known as cache. Associated with the processor cache is divided into two general - L1 cache, also called the internal cache; and L2 cache, also known as external cache. For example, Pentium4 "Willamette" core products of the 423-pin(针) architecture, with 400MHz front side bus(前端总线), with two full-speed 256KB cache, 8KB cache level tracking, SSE2 instruction set.

(b) Screen resolution (3 points)

Screen resolution isn't the same as the size of the screen itself. Rather, it is related to the number of pixels -- or distinct dots -- on a display, and an indication of how much material can be seen on the screen without scrolling. A higher-resolution screen allows you to see more of a Web page, spreadsheet or list of emails than a lower-resolution screen, even if both are the same physical size. Because higher-resolution screens cost more, most netbooks(上网本) come with low-resolution screens to keep prices down. But poor resolution combined with a small netbook screen results in frustrating visuals, like Web pages that display just a small portion of their contents, forcing you to scroll down or horizontally to see the rest of the page.

专业：_____ 学号：_____ 姓名：_____

Answer Sheet (A)**一. Single Choice (30 Points, 1 point per choice)**

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

二. Match each blank with the most closely related lettered item (20 Points, 1 point per blank)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

三. True/False (20 Points, 1 point per question)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

四. Translate the following terms into Chinese (10 Points, 0.5 point per term)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

五. Complete the following conversions between different numbering systems: (6 points)

- $(111110111011101)_2 = (\quad)_{10} = (\quad)_8 = (\quad)_{16}$
- $(127.25)_{10} = (\quad)_2 = (\quad)_8 = (\quad)_{16}$

3. $X = -0.1111011$ ，采用定点小数表示，设机器字长为 8，则 x 的原码是_____，反码是_____，补码是_____.

六. Fill in the blank (5 Points)

1	2	3	4	5
----------	----------	----------	----------	----------

七. Translate the following paragraphs into Chinese (6 Points)

密

封

线

