

國立高雄大學 110 年度產業碩士專班秋季班招生考試試題

科目：C 語言

專班名稱：半導體製造智能化技術產業碩士

考試時間：100 分鐘

專班

是否使用計算機：否

本科原始成績：100 分

一、選擇題 60%

- ()1.底下哪一個不是 C 語言的資料型態? (A)int (B)char (C)float
(D)image
- ()2.底下哪一種類型的變數在程式內的所有區段皆可使用? (A)local
變數 (B)static 變數 (C)global 變數 (D)以上皆非
- ()3.請問底下的程式碼執行之後 c = ? (A)12 (B)13 (C)11 (D)14
`int a=5, b=7, c;`
`c = a+++b;`
- ()4.底下的指令執行完畢之後，sum = ? (A)2.5 (B)1 (C)3
(D)10.3
`float sum = 1/1 + 1/2 + 1/3 + 1/4 + 1/5 + ... + 1/9 + 1/10`
- ()5.若宣告字元陣列如后 `char a[20]`；請問最後一個陣列成員序號
(index) 為 ? (A)0 (B)1 (C)19 (D)20
- ()6.同上題，請問陣列 a 總共占用多少位元組(byte)空間?
(A)20 (B)40 (C)160 (D)60

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() 7. 若有一標識巨集指令如下，則 $\text{MIN}(5,7) = ?$ (A)5 (B)7 (C)12
(D)6

```
#define MIN(A,B) ( (A) <= (B) ? (A) : (B) )
```

() 8. 底下哪一個關鍵字(Key word)可以將函式展開編譯以加速程式的執行，且類似巨集的 define 指令？ (A)static (B)const
(C)online (D)inline

() 9. 對於關鍵字 const 與 define 的比較，底下敘述何者正確？
(A)const 可以在預處理階段即行展開。
(B)define 直接展開時不會分配記憶體。
(C)const 不會在記憶體中分配。
(D)define 會在編譯階段執行類型檢查。

() 10. 在函數呼叫中，若呼叫者與被呼叫者的變數各自佔有記憶體，也就是傳遞參數會先複製再傳給函式稱為 (A)傳址呼叫 (B)傳標籤呼叫 (C)傳值呼叫 (D)傳巨集呼叫

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二、簡答題 40%

1.請參考底下的程式碼並回答下列問題。8%

行號

```
1.  int main( )
2.  {
3.      int  i;
4.      for( i =1; i <= 10; ++i)
5.      {
6.          cout <<  i  <<  “:”
7.              << ( i % 2 = 0  ?  “偶數\n” : “奇數\n” );
8.      }
9.      cout <<  i  << endl;
10. }
```

(1) 請問上述程式碼錯誤發生在第幾行？如何修改？4%

(2) 上述程式碼第 9 行執行的結果 i = ? 4%

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2.請參考底下的程式碼並回答下列問題。8%

```
for( unsigned int i = 10; i >= 0; -- i)
{
    cout << i << endl;
}
```

(1) 請問上述迴圈是否為無窮迴圈? 4%

(2)若是，請說明原因。若否，最後輸出數值為何? 4%

3.請參考底下的程式碼並回答下列問題。8%

```
int sum( int a, int *b)
{
    int c;
    c = ++a + (*b)++;
    return c;
}
int main()
{
    int x=3, y=4, z ;
    z = sum(x, &y);
}
```

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(1) 上述程式碼執行後， $x = ?$ 4%

(2) 上述程式碼完成後， $y = ?$ 4%

4. 請參考底下的程式碼並回答下列問題。8%

```
Void count()
```

```
{
```

```
    static int c = 1;
```

```
    cout << c;
```

```
    c++;
```

```
}
```

```
int main( )
```

```
{
```

```
    for(int i = 0; i < 10; i++)
```

```
    {
```

```
        count();
```

```
    }
```

```
}
```

(1) 程式最後輸出的數值為何? 4%

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(2) 若將 `count()` 函數中的宣告 `static int c = 1;` 改成 `int c = 1;`

重做 (1) 的答案為何? 4%

5. 若已知有一整數陣列宣告如下，

```
int num[5] = {10, 5, 8, 3, 7};
```

請自行利用雙層迴圈之氣泡排序法(bubble sorting) 將陣列中的數值由小而大排列。8%

```
int main( )
```

```
{
```

```
    int num[5] = {10, 5, 8, 3, 7};
```

```
    int i, j, tmp ;
```

```
    /* 底下請自行設計雙層 for 迴圈進行數值排序 */
```

```
}
```

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專班

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Part I: Incomplete Sentences (30 points, 2 points each)

Directions: Circle the answer choice that means the same as the underlined word(s).

1. If you _____ your reservation 48 hours in advance, you will not be billed.
(A) oblige (B) cancel (C) engage (D) determine
2. I don't feel any _____ to give my boss more than two weeks' notice when I leave.
(A) oblige (B) obligatory (C) obliged (D) obligation
3. If our work isn't to your _____, please notify us within 60 days.
(A) satisfy (B) satisfactory (C) satisfaction (D) satisfied
4. Jacques and Louisa will only _____ purchasing appliances that come with a money-back guarantee.
(A) consideration (B) consider (C) considering (D) considerable
5. When planning a major purchase, look for a _____ company that sells high-quality products.
(A) reputable (B) considerable (C) requisite (D) implicit
6. Many problems are _____ if you take the time to create a solid business plan.
(A) avoidable (B) primary (C) strategic (D) risky
7. If we think _____, we can come up with a plan that promises success.
(A) strategize (B) strategic (C) strategically (D) strategist
8. If you are not available to chair this month's business association meeting, another member of the committee could _____ for you.
(A) substitute (B) address (C) gather (D) offer
9. The banquet room can _____ up to 750 people for dinner.
(A) select (B) hold (C) attend (D) arrange
10. In order to _____ your e-mail messages, you must type in your password.
(A) access (B) accessible (C) accessed (D) accessibility

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11. Too many of our staff are having problems using this software, so we need to _____ more funds for training.

(A) search (B) allocate (C) delete (D) ignore

12. This copier is priced within our budget, but it doesn't have the _____ to handle large jobs.

(A) stock (B) provisions (C) affordability (D) capacity

13. We have to get a more _____ machine, as this one always seems to be in need of repairs.

(A) as needed (B) recurring (C) in charge (D) durable

14. I have only had a quick _____ of the document but will read it more thoroughly tonight.

(A) code (B) practice (C) casualness (D) glimpse

15. The use of formal forms of address, such as "Sir" and "Madam," may be considered _____ in more modern workplace.

(A) verbal (B) outdated (C) exposed (D) casual

Part II: Text Completion (30 points, 3 points each)

Directions: You will see four passages with blanks. Under each blank are four answer options. Choose the word or phrase that best complete the sentence.

Passage A:

To: gloriacummings@bargainboy.com

From: hankrichards@bargainboy.com

Subject: Offices

Hi, Gloria,

I need a favor. My office is being painted, and I was hoping I could use your office this afternoon while you are at your client's reviewing their account. I need to _____ 16 _____ several people for the job opening in our department. Sorry this is such a last-minute request. I just found out myself when the painters are coming in.

I thought of you because I overheard you telling Goerge that you would be out of the office for some

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meetings late this afternoon. There are four 17, and I have appointments with all of them after lunch.

I don't know if you were even planning on coming back to the office after your 18. If not, then you won't even notice that I'm here. Either way, it won't take long. I can easily finish before 3:30. Then you can have your office back.

Before you leave for the afternoon, can you make sure to clear any confidential papers from your workspace? Thank you in advance.

Hank

16. (A) review (B) preview (C) interview (D) overview
17. (A) applications (B) applicants (C) applicable (D) appliance
18. (A) meetings (B) accounting class (C) luncheon (D) interview

Passage B:

To: lindsayeters@homemail.net
From: biancapierce@fairwear.com
Subject: Warm Regards

Dear Ms. Peters,

We just wanted to write and personally say good-bye. 19 your hard work and dedication. You were one of our very first employees, and it is hard to see you go. However, you never make bad decisions, and we think taking 20 was wise. Colleen and I have always shopped at Marie's boutique, and we know you will love designing her style of clothes. 21 the great contributions you have made to this company. I wish you great success in the future.

Warm regards,
Bianca Pierce

19. (A) We have appreciated always (B) We always have appreciated
(C) Always we appreciated (D) We have always appreciated
20. (A) over my position (B) the new job (C) your salary away (D) time off
21. (A) Never we will forget (B) We will forget never (C) Never will forget

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(D) We will never forget

Passage C:

BUSINESS TIP FOR MONDAY MARCH 1st

A number of studies have shown that music increases worker productivity. Slow music helps workers focus, while fast music increases 22 at work. Before you turn on any music in your office, ask your supervisor for 23.

Some work environments are not suitable for music. If other staff members prefer 24, consider using headphones.

22. (A) efficiency (B) a efficiency (C) an efficiency (D) a few efficiency
23. (A) the permission (B) permits (C) permission (D) a permission
24. (A) quiet (B) quietness (C) the quietness (D) to quiet

Passage D:

Silverwood Secondary School Newsletter Edition 3-page 6

Message from the Principal:

Note to parents: Many students at our school 25 their schedules wisely. Some students choose classes just to be with their friends. Other students try to take too many classes in one semester. Students who take work home feel overworked and unfocused because they don't have some spare time. Before students decide which class to take this semester, they should think about their options. Help them to discover their interests.

Note to students: Take classes that interest you. We recommend taking only four classes per semester. Allow some spare time for studying and catching up. More importantly, think about how much time you have to study. Remember your teachers and parents can help you.

25. (A) does not choose (B) is not choosing (C) has not chosen
(D) do not choose

Part III: Reading Comprehension (40 points, 4 points each)

Directions: You will see reading passages followed by several questions. Each question has four

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answer choices. Choose the best answer to the question.

Questions 26-28 refer to the following magazine article. Choose the best answer to the question.

The Information Highway is the road that links computer users to an infinite number of on-line services: the Web, electronic mail, public forum, and software, to mention just a few. Not long ago, the Information Highway was a new road, with not many users. Now, everyone seems to want to take a drive, with over 30 million households connected worldwide. Not surprisingly, this well-traveled highway is starting to *look* like a well-traveled highway. Traffic jam can cause routers to break up, forcing the system to close down for maintenance and repair. Naturally, accidents will happen on such a populated road; and usually, the victim is some unintended file, gone forever. Then, of course, there's Mr. Cool, with his new broadband connection, who speeds down the highway faster than most of us can go. But don't kid yourself; he pays for that speeding.

26. What is this article about?

- (A) Computerized access to information (B) E-mail (C) Travelling by highway (D) Traffic problems on a congested road

27. Why would the Information Highway need to be closed?

- (A) There is an infinite number of services. (B) There aren't enough users.
(C) There are too many users. (D) There's an accident.

28. Who can travel fastest on the highway?

- (A) Someone in a fancy new car (B) Cool people
(C) Someone with a broadband connection (D) The police

Questions 29-33 refer to the following newspaper article.

September 1, Zurich: RADD, A.G., the Swiss chemical company purchased the European polypropylene business of Royal Chemical Industries, P.L.C., of Britain. No price was disclosed, but RCI said the deal represented 1 to 2 percent of its net assets and would be paid in cash. Based on net assets, the price would be between \$100 million and \$160 million. The acquisition includes RCI production plants in England, Denmark, Norway, and Poland. The plants alone are valued at \$60 million to \$80 million. Polypropylene, a tough, flexible plastic, has uses that range from rope fibers to bottles.

29. RADD is probably located in?

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- (A) England.
- (B) Switzerland.
- (C) Denmark.
- (D) Poland.

30. According to the article, what is used to make rope fibers?

- (A) Hemp (B) Cotton
- (C) Steel (D) Polypropylene

31. How much will RCDD pay for RCI?

- (A) \$80 million (B) \$100 million (C) Between \$100 and \$160 million
- (D) Between \$60 and \$ 80 million

32. Where is RCI's head office?

- (A) Norway (B) Denmark (C) Britain (D) Poland

33. What are the terms of the deal?

- (A) Payment in cash (B) Payment in stock
- (C) 2% of gross assets (D) 1% down payment

Questions 34-35 refer to the following magazine article.

Busy people don't want their vacations to be a hassle. That's why all-inclusive resorts are becoming popular. At these resorts, one price includes all meals, drinks, lodging, and sightseeing. Golf, tennis, and swimming are available for free. Other sports, such as scuba diving, deep-sea fishing, and rock climbing, may require separate fees for equipment rental, but instruction and excursions are included. Many resorts also include children's activities as part of the package. Check with a travel agent to find an all-inclusive resort with activities you would enjoy.

34. What does it mean to be an "all-inclusive" resort?

- (A) They're in an exclusive location.
- (B) One price includes food, lodging, and activities.
- (C) Only families may stay there.
- (D) Room price and airfare are included.

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35. What might cost extra in these resorts?

- (A) Excursions and instruction (B) Transportation for sightseeing
(C) Hotel maid service (D) Sports equipment rental