國立中央大學101學年度碩士班考試入學試題卷

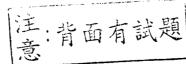
所別:<u>生物醫學工程研究所碩士班 甲組(一般生)</u> 科目:<u>程式設計 共 页 第 / 頁</u> 本科考試可使用計算器,廠牌、功能不拘 *請在試卷答案卷(卡)內作答

- 1. (10%) What is the difference between "Client-Side scripting" and "Server-side scripting"?
- 2. (10%) Explain what the Object-oriented programming (OOP) is.
- 3. (10%) List both the characteristics and differences between C++, Java and MATLAB.

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4. (14%) List the print number (x) of each step in the following program:
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```
#include <iostream>
using namespace std;
int main()
{
    int x=2,y,z;
    x *=(y=z=3); cout << x << endl;
    x ==(y=z); cout << x << endl;
    x =(y&z); cout << x << endl;
    x =(y,z); cout << x << endl;
    y=4;
    x =(y,z); cout << x << endl;
    x =(y,z); c
```

- 5. (20%) Assume every character or integer contains 8 digits, what will be the output of the following C code?
 - (a) #include <iostream>
 using namespace std:
 int main()
 {
 unsigned char a=0xB3;
 int b; b=a*2;
 /cout <<b;
 return 0;</pre>
 - (b) What is the output if we replace the highlighted line with: int b: b=-a>>4:



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- 6. (16%) Write a program to calculate a 5-digit number abcde, where abcde*4=edcba and digits are not repeatable. [The code has to be written in C or C++; Variables need to be declared]
- 7. (20%) Use 'for' loops to multiply two matrix: A(i)(p) and B(p)(k), and restore the values to a new matrix C(i)(k). [The code has to be written in C or C++; Variables need to be declared]

注:背面有試題