

S.2A Computer Literacy 20-min Quiz (Ch. 2 and Pascal programming)

Name: _____

Class: S.2 (_____)

Marks: _____ / 50

Instruction: Answer **ALL** questions in the space provided.

Section A: Multiple Choice – Write down the BEST answer for each question in the box below. (24 marks)

1. 2. 3. 4. 5. 6. 7. 8. 9.

1. Which of the following is/are *operating system(s)* (操作系統) ?

(1) Microsoft Windows Vista
(2) DOS
(3) Internet Explorer

A. (1) only B. (3) only
C. (1) and (2) only D. (2) and (3) only

2. Which of the following software is most suitable for handling a large amount of organized data ?

A. Database software B. Word processor
C. Presentation software D. Web browser

3. Which of the following is **NOT** the function of an operating system in a computer ?

A. Control all the hardware components connected to the computer
B. Manage memory usage of programs and data
C. Manage computer files and folders
D. Provide programming software for programmers

4. Which of the following types of software provides the source code for users to amend (修改) the software ?

A. Commercial software
B. Shareware
C. Freeware
D. Open source software

5.

```
program year;
var
    month, year : integer ;
    name : string ;
begin
end.
```

What is wrong with the above Pascal program ?

A. The executable section should **not** be empty.
B. Only one type of a variable is allowed in a program.
C. The declaration of the variables “month” and “year” should be done in TWO lines.
D. The name of a variable should **not** be the same as that of the program heading.

For Q.6 to Q.11, find the **output** in each of the following Pascal programs. The symbol ☐ represents a space (空格).

6.

```
program Q6;
begin
    write('Pascal');
    writeln(' program');
end.
```

A. Pascalprogram
B. Pascal☐program
C. Pascal
program
D. Pascal
☐program

7.

```
program Q7;
begin
    write(-18:5);
end.
```

A. -18.00000 B. ☐☐☐☐☐-18
C. ☐☐-18 D. ☐☐-18.00000

8.

```
program Q8;
var
    m, n : string;
begin
    m := 'moon' ;
    n := 'noon' ;
    write(n);
end.
```

A. n B. noon
C. n is noon D. moon

9.

```
program Q9;
var
    a : integer ;
    b : real ;
begin
    a := 9 ;
    b := 2.0 * a ;
    write(b:5:2);
end.
```

A. 11.00 B. ☐11.00
C. 18.00 D. ☐18.00

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10. 11. 12.

10.

```
program Q10;
var
    x : integer ;
begin
    x := 4 ;
    if x >= 4 then
        x := x - 1 ;
    if x < 4 then
        x := x -1 ;
    write(x);
end.
```

- A. 2
- B. 3
- C. 4
- D. None of the above

11.

```
program Q11;
uses crt ;
var
    r : integer;
begin
    r := 10 ;
    write('r = ');
    clrscr ;
    r := r + 2 ;
    writeln(r);
end.
```

- A. 12
- B. r =
- C. r = 12
- D. None of the above

For Q.12, the following data are input to the program:

1	2	3
4	5	6

12.

```
program Q12;
var
    p, q, r : integer;
begin
    readln(p, q);
    read(r);
end.
```

Find the values of *p*, *q* and *r*.

- | | <i>p</i> | <i>q</i> | <i>r</i> |
|----|----------|----------|----------|
| A. | 1 | 2 | 3 |
| B. | 1 | 2 | 4 |
| C. | 1 | 4 | 5 |
| D. | 4 | 5 | 6 |

Section B: Right or Wrong (4 marks)

For the right sentences, write down R. For the wrong ones, write down W.

1. 2. 3. 4.

- Dreamweaver is **not** a type of application software.
- Commerical software is sold for profit.
- In Turbo Pascal, **indentation** is used to make a program more difficult to read.
- To debug a program means to remove errors in the program.

Section C: Matching (4 marks)

Match the following software with the corresponding category.

1. 2. 3. 4.

- | | |
|----------------------|----------------------------|
| 1. Ulead PhotoImpact | A. Programming language |
| 2. WinZip | B. Application software |
| 3. Linus | C. Operating system |
| 4. Turbo Pascal | D. Utility software (實用軟件) |

Section D: Fill in the blanks (5 marks)

Write down the correct words in the boxes below.

- (1)
- (2)
- (3)
- (4)
- (5)

Note that the first letter of each word needed is given as a hint. You need to **include the first letter in your answers**.

- Icon is a feature of a ⁽¹⁾g_____ user ⁽²⁾i_____.
- System software consists of an operating system, utility software and a ⁽³⁾d_____ driver.
- Audacity is a type of ⁽⁴⁾a_____ editing software.
- To ⁽⁵⁾c_____ a program means to change the program statements into the machine language.

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Section E: Designing a program (13 marks)

1. Complete the following program which :

- asks for the input of the base (***b***) and the height (***h***) of a triangle
- calculates the area (***a***) of the triangle if $a = \frac{bh}{2}$
- displays the value of ***a*** corrected to **2 decimal places**

(6 marks)

```
{To ask for the input of the base and the height of a triangle and then calculate its
area. In this program, b is the base, h is the height, and a is the area.}

program triangle_area;

-----
    b, h, a : real ;
begin
    write('Enter the base of a triangle: ');
    readln(_____);

    write('Enter the _____ of the triangle: ');
    readln(_____);

    -----

    writeln('The area of the triangle is ', _____);
    readln

end.
```

2. Complete the following program so as to meet the requirements below.

- The program first clears the screen.
- Ask the users to input an integer variable ***a***.
- If ***a*** is **not equal** to 2, multiply ***a*** by 10.

(7 marks)

```
program exercise;

-----

var
    -----

begin
    ----- {clear the screen}
    ----- {ask the users to input a}
    ----- {input a}
    ----- {check if a is not equal to 2}
    ----- {If a is not equal to 2, multiply a by 10}

end.
```

END OF PAPER

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Sec. A: M.C. (24 marks)

1-12 C A D D D B C B C A A B (2 marks @)

Sec. B: R / W (4 marks)

1-4 W R W R (1 mark @)

Sec. C: Matching (4 marks)

1-4 B D C A (1 mark @)

Sec. D: Fill in the blanks (5 marks)

1. graphical (1 mark @)
2. interface
3. device
4. audio
5. compile

Sec. E: Designing a program (13 marks)

1. var (1 mark in each line)
- b
- height
- h
- a := b*h/2 ;
- a : 0 : 2
2. uses crt ;
- a : integer ;
- clrscr ;
- write('Enter a: '); or writeln('Input a: ');
- readln(a); or read(a);
- if a <> 2 then
- a := a * 10 ;