Quiz 7: Shell Programming

Do not refer to any printed material.
No talking or discussion is allowed until the answer sheets are all collected.

Review:

1. Here are two arithmetic conditions that are to be used with an `if` statement:

   ```
   [ $i -lt 5 ]                          ((i<5))
   ```

   (A) Both are correct
   (B) The first is correct but the second is not because the '`$`' is missing before the '`i`'
   (C) The first is correct but the second is not because there should be spaces between the tokens
   (D) The first is correct but the second is not correct because the operator should be '`-lt`'
   (E) The first is wrong, but the second is correct.

2. Which of the following will cause a shell variable `var` to be defined with the value "`value`"?

   (A) `$ $var=${value}`
   (B) `$ $var = value`
   (C) `$ var = value`
   (D) `$ var=value`
   (E) `$ $var=value`

3. A shell script `script.sh` is executed like this, and the output is shown:

   ```
   $ script.sh 1 2 3 4 5 6
   parameters are 1 2 3 4 5 6
   ```

   The first line of the file `script.sh` is `#! /bin/sh` The second line could be:

   (A) `$ parameters are $* $2 $3 $4 $5 $6`
   (B) `$ echo parameters are $0 $1 $2 $3 $4 $5`
   (C) `$ echo parameters are $# $1 $2 $3 $4 $5`
   (D) `$ echo parameters are $@`
   (E) `$ echo parameters are $$ $1 $2 $3 $4 $5`

Preparation:

4. This question relates to input and output in the shell:

   (A) We can perform *input* with `read`, *output* with `printf`
   (B) We can perform *input* with `read`, *output* with `echo`
   (C) We often use a `while` loop with `read` to process *input*, one line for each iteration of the loop
   (D) We use *redirection* to put output into files
   (E) All the other choices are correct

5. A shell script is written called `rename`. It can be called in any of the following ways:

```
$ rename
$ rename -v
$ rename -v *.c
$ rename -v *.c
$ rename -v -l *.c
```

The '`-v`', '`-l`' are called:

(A) *enumerations*

(B) *test fields*

(C) *parameters*

(D) *param*

(E) *options*