OPERATING SYSTEMS AND SYSTEMS INTEGRATION



Quiz 6: Shell Programming

Do not refer to any printed material.

No talking or discussion is allowed until the answer sheets are all collected.

Review:

- 1. It is necessary to quote the parentheses '(...)' in the following shell command because:

 - (A) The shell will try to start a subshell
 - (B) The shell will terminate with a divide by zero exception
 - (C) The precedence will be wrong, i.e., addition will not be done before multiplication
 - (D) The shell will expand into a list of files otherwise
 - (E) The shell will cause a sementation fault
- 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.** Functions in the shell:
 - (A) are not actual functions, but are separate shell scripts that are loaded at run time
 - (B) are not supported in version 2.x of Bash;
 - (C) are less useful than in other programming languages
 - (D) Cannot accept function parameters
 - (E) Do not start a new process

Nick Urbanik <nicku(at)nicku.org> ver. 1.0