

Vavuniya Campus of the University of Jaffna

First Examination in Information and Communication Technology - 2015

Second Semester - January/February 2017

ICT1262 Practical for Operating Systems

Answer All Questions

Allowed Time: Three hours

[25%]

0%]

5%)

5%]

5%]

1. Write a shell script and name it with your index number (e.g. IT1234.sh) to perform each of the following tasks:	
(a) Print the User name.	[05%]
(b) Read First Name and Last Name from the user.	[10%]
(c) Read the Gender from the user.	[05%]
(d) Read the Age from the user.	[05%]
(c) Print the Title and the Name with Initial where initial is the first letter of First name and the title is defined as follows:	[15%]
• "Master.", if the Gender is Male and Age is less than 18 years	
• "Mr.", if the Gender is Male and Age is greater than 17 years	
• "Ms.", if the Gender is Female	
2. Write a C program (Program.A) which contains each of the following functions:	
(a) readData(): to get Name, Address, and ten Marks from the user as input.	[05%]
(b) calculate(): to find the total of ten marks, average of ten marks, and the status	

[10%]

"Pass" if the average is grater than or equal to 50 else "Fail".

(c) printDetail(): to print the Name, Address, and the Message as given below:

[15%]

- "Passed the Course", if all the marks are greater than 29 and average is greater than 49.
- "Re-Sit Some Subjects", if some marks are less than 30 and average is greater than 49.
- "Re-Sit All Subjects", if all marks are less than 30.
- (d) send ToB(): to send the Name and the Message to another $program_B$ using $named\ Pipe(s)$.

[10%]

- 3. Write a C program (Program_B) to perform each of the following:
 - (a) Read the values sent from Program A using named Pipe(s) and add it to a string.

[10%]

(b) Create a simple text file named "Student.txt" if it does not exist in the present working directory.

[05%]

(c) Add the string read from the named Pipe(s) in part 3(a) to the file created in part 3(b).

[05%]