

KASNEB

CICT PART I SECTION 2

OPERATING SYSTEMS - PRACTICAL

TUESDAY: 23 May 2017.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

Ensure that you are provided with a computer, a flash disk and printing materials.

Additional instructions:

1. Save all your work (including theory answers where necessary) in the flash disk provided and in a folder bearing your registration number.
2. Work on each question should be saved in the subfolder contained in the folder created in number 1 above. The name of the subfolder should correspond to the question number.
3. Your registration number MUST appear as a header on every printout containing your answers.
4. You must indicate the number of the question answered on the header created in number 3 above.

Note: The information in numbers 1-4 above must be computer generated.

At the end of the examination duration, you should hand in to the invigilator(s):

- (a) The flash disk containing your work.
- (b) All printed work.
- (c) All unused printing paper(s).

QUESTION ONE

Create a word processor document named "Question One".

Use the word processor document to save your answers to questions (a) to (d) below:

- (a) Outline two reasons for process suspension. (2 marks)
- (b) Examine four of the most common system calls relating to files. (4 marks)
- (c) (i) Create three group accounts with the details shown in the table below:

Name	Description
• Management	For management staff only
• Admin	For systems administrator
• Salesperson	For sales capturing staff only

Capture and save a screenshot showing the above group accounts. (3 marks)

- (ii) Create the following user accounts:

Username	Full name	Description	Password	Password details
• Bencha	Ben Chali	Marketing Manager	Chaneb	User must change it in the next logon
• Dickam	Dickson Ameki	System Administrator	Amkcid	User can change password
• Stardo	Star Doni	Sales Representative	Dorast	Account never expires
• Medvi	Medro Victo	Sales Representative	Videm	User cannot change

Capture and save one screenshot showing how you created Ben Chali and another screenshot showing all the users. (4 marks)

- (d) Create a console for the local computer called "OSPracJ2017" and add the following snap-ins:
- (i) Component services. (1 mark)
 - (ii) Device manager. (1 mark)
 - (iii) Disk management. (1 mark)
 - (iv) Print management. (1 mark)
 - (v) Shared folders. (1 mark)
- Capture and save a screenshot showing all the snap-ins created.
- (e) Capture and save a screenshot showing Microsoft Windows default programs. (3 marks)
- (f) Change your computer power settings so that when the power button on the computer is pressed, the computer asks you what you want to do.
- Capture screenshots showing how you completed the above task. (3 marks)
- Print "Question Three" document.
- (Total: 20 marks)**

QUESTION FOUR

Create a word processor document named "Question Four".

Use the word processor document to save your answers to questions (a) to (e) below:

- (a) Distinguish between "memory fragmentation" and "memory segmentation". (2 marks)
- (b) An intern in an organisation was informed by one of the staff that his computer which was running on a Windows operating system kept on restarting.
- Advise the intern by suggesting three possible causes to this problem. (3 marks)
- (c) Configure your computer to perform the following tasks:
- (i) Turn on network discovery. (1 mark)
 - (ii) Turn on file and printer sharing. (1 mark)
 - (iii) Turn off public folder sharing. (1 mark)
 - (iv) Turn on password protected sharing. (1 mark)
- Capture and save all framed screenshots displaying the above tasks.
- (d) (i) Create a task named "My_task" and ensure that the task would run only when the user is logged on.
- Capture and save a framed screenshot showing how you accomplished the above task. (2 marks)
- (ii) Set the task in (d)(i) above to display a message "Operating System Practicals" when the task starts.
- Capture and save a framed screenshot. (2 marks)
- (iii) Configure your computer to start the task in (d)(i) above if the computer is idle for 10 minutes.
- Capture and save a framed screenshot showing the above status. (2 marks)

- (e) Use an appropriate tool to enable error reporting feature of your computer. Add any internet browser program installed in your computer to the list of programs that your computer will report errors.
Capture and save screenshots of all the steps you followed in completing the above task. (5 marks)
Print "Question Four" document. (Total: 20 marks)

QUESTION FIVE

Create a word processor document named "Question Five".

Use the word processor document to save your answers to questions (a) to (e) below:

- (a) Highlight three ways in which applications use the computer registry. (6 marks)
- (b) Change the time taken by your computer during startup to display the list of the operating systems to 10 seconds and time taken to display recovery options when needed to 15 seconds.
Capture all screenshots showing how you accomplished the above tasks. (4 marks)
- (c) Capture screenshots of how you would ensure all hidden files and folders in your computer are displayed. (4 marks)
- (d) Customise your start menu to display the following:
 - (i) Network components.
 - (ii) System administrative tools on the all programs menu.
 - (iii) Only three recent programs.Capture and save appropriate screenshots showing the above customisation. (3 marks)
- (e) Carry out the following tasks:
 - Create a subfolder in "Question Five" folder called "OSPracD2017".
 - Show this folder using the share name "OSPracD2016" and limit simultaneous users to eight.
 - Ensure no files or programs from this folder are available offline.Capture and save appropriate screenshots of how you completed the above tasks. (3 marks)
Print "Question Five" document. (Total: 20 marks)

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