

# WRITTEN TEST

## Candidate for ICT Associate GL6, Goma, DRC

December 05, 2018

Candidate Name & Surname: \_\_\_\_\_

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**Duration : 2H**

### Section 1 Question 1 to 12: Multiple choices (2 points/Question)

Instruction: Please circle the answer or answers best match to the question. Choose all that apply.

- I. You disabled port 110 and enabled port 995 in your server document. Why?
  - A. You wanted to run IMAP instead of POP3
  - B. You wanted to run POP3 instead of IMAP
  - C. You wanted to run POP3 over SSL only
  - D. You wanted to run IMAP over SSL only
  
- II. Before a client can receive a dynamic IP address from a server \_\_\_\_\_.
  - A. DHCP must be running on the server
  - B. DNS must be running on the server
  - C. WINS must be running on the server
  - D. a gateway must be installed on the server
  
- III. When accessing a network share, you attempt to modify its contents, but you're unable to do so. What is the most likely reason for this \_\_\_\_\_?
  - A. GPOs are typically pulled from cache memory.
  - B. The files are in Read-Only mode because another user is using them.
  - C. The files are being pulled from a backup resource.
  - D. You only have Read, Write and Change permissions to the files.
  
- IV. What is the basic purpose of a firewall system \_\_\_\_\_?
  - A. It protects one network from another by acting as an intermediary system.
  - B. It caches commonly used Web pages, thereby reducing the bandwidth demands on an Internet connection.
  - C. It allows hostnames to be resolved to IP addresses.
  - D. It provides a single point of access to the Internet.
  
- V. You are designing a password policy for your company. Which of the following measures are you least likely to recommend \_\_\_\_\_?

- A. Include passwords in system documentation
  - B. Ensure that passwords are not reused
  - C. Make sure that users use only "strong" passwords that are a certain length
  - D. Change passwords on a periodic basis
- VI. You have just set up a filter on your network router and SMTP operations have stopped responding. What is the likely cause of this problem \_\_\_\_\_?
- A. Port 25 is closed.
  - B. Port 110 is closed.
  - C. Port 80 is closed.
  - D. Port 443 is closed.
- VII. Which of the following technologies can be implemented on a switch to create multiple separate networks \_\_\_\_\_?
- A. Subnet masking
  - B. VLAN
  - C. NAS
  - D. Proxy
- VIII. Your company has two offices in different locations. You need to establish a secure link between the two. You want to use the Internet as a communication mechanism to keep the costs down. Which of the following technologies might you consider using \_\_\_\_\_?
- A. VLAN
  - B. 802.11b
  - C. VPN
  - D. TDR
- IX. To combine hard drive fault tolerance with good read/write performance, which of the following should be used \_\_\_\_\_?
- A. Striping without parity
  - B. Tape backup
  - C. Mirroring
  - D. Striping with parity
- X. Your manager has given you the task of implementing a RAID solution on the server. You have two hard disk controllers and two hard disks. Which three of the following RAID levels could you implement \_\_\_\_\_?
- A. Disk mirroring
  - B. Disk striping with parity
  - C. Disk striping
  - D. Disk duplexing
  - E. Disk shadowing
- XI. Which of the following statements best describes RAID 5 \_\_\_\_\_?



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III. (10 points/Question)

You have been asked by UNHCR office to provide specifications for the Solar/inverter system for power backup for the ICT equipment.

- a) What are the guidelines or benchmarks you will require to achieve the require specifications?
- b) Draw a basic diagram to demonstrate a better understanding of UNHCR requirement.

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IV. (3 points/Question)

Your office is power by 220V AC from the local electricity authority; you have 7 desktop computers (250W each) and other accessory that consume 5000W of electric power. What is minimum capacity of backup generator you would recommend for a proper backup if main power fail? Please give the value in KVA unit

[illegible]

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V. (5 points/Question)

What is VSAT stand for? Please briefly describe VSAT system and relate component.

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VI. (3 points/Question)

In VHF radio network, what is SWR stand for? Please describe why SWR parameter is important in the radio communication aspect

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VII. (15 points/Question)

Please present design of a two way radio network covers the area of 50 square kilometers in Beni area with the following main requirements:

- a) Direct support to 50 UNHCR staff
- b) The network also covers some requirement (as need basis) for maximum of 10 staff from other organizations
- c) Having at least two network controllers
- d) Must be cost effective
- e) Must be redundant to local/commercial infrastructure
- f) Please indicate the type of radio network and all accessories needed in this design

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[illegible]



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VIII. (0.5 points/Question)

### What are the 7 layers of ISO model according to Cisco?

[illegible]IX. (0.5 points/Question)

Please give the ports used by the following protocols Telnet, FTP, HTTP, HTTPS, SMTP and POP3?

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=====End of Section 2=====

