

FINAL
Examination Paper

(COVER PAGE)

Session : April 2016

Programme : Diploma In Information And Communication Technology (DICTN)

Course : **ICT2109: Server Management**

Date of Examination : 27 July, 2016 (Wednesday)

Time : 5:00pm – 7:00pm Reading Time : Nil

Duration : 2 Hours

Special Instructions :

SECTION A: Answer **ALL** multiple choice questions.

SECTION B: Answer any **THREE (3)** essay questions.

Materials permitted : Nil

Materials provided : Nil

Examiner(s) : **Victor Raj Kolintiar** and Vasuky Mohanan

Moderator : Dr Liew Chee Sun

This paper consists of 8 printed pages, including the cover page

DIPLOMA IN INFORMATION AND COMMUNICATIONS TECHNOLOGY (DICTN)
ICT2109: SERVER MANAGEMENT
FINAL EXAMINATION: APRIL 2016 SESSION

Instruction: This paper consists of **TWO (2) SECTIONS**. Answer **ALL** questions in **SECTION A** and any **THREE (3)** questions in **SECTION B**.

SECTION A: Answer **ALL** questions in the OMR sheet provided. All questions carry equal marks.

1. Which of the following migration paths is not supported by the Windows Server Migration Tools?
 - A. Migrating between x86 and x64 architectures
 - B. Migrating between source and destination servers that have different system UI languages
 - C. Migrating between physical machines and virtual machines
 - D. Cross-subnet migrations

2. Which tool can help you ensure that new hardware you purchase will work properly with Windows Server 2012?
 - A. The msinfo32.exe utility
 - B. The Get-WindowsFeature cmdlet
 - C. The Application Compatibility Toolkit
 - D. The Windows Server Catalog

3. Which installation option of Windows Server 2012 potentially can have the smallest disk footprint?
 - A. Server With A GUI
 - B. Server Core
 - C. Minimal Server Interface
 - D. Full

4. What is the name of the task-sequence group that controls the phase of the deployment process where the BIOS of the target computer is checked to ensure that it is compatible with the operating system you are deploying?
 - A. Validate
 - B. Preinstall
 - C. Install
 - D. Postinstall

5. Which cmdlet can you use to disable a binding on a network adapter?
- A. Remove-NetAdapterBinding
 - B. Disable-NetAdapterBinding
 - C. Get-NetAdapterBinding
 - D. Disable-NetAdapter
6. Which of the following Windows PowerShell commands will *not* uninstall the Windows Server Backup feature?
- A. Uninstall-WindowsFeature -Name Windows-Server-Backup
 - B. Remove-WindowsFeature -Name Windows-Server-Backup
 - C. Get-WindowsFeature -Name *Backup* | Uninstall-WindowsFeature
 - D. Invoke-Command -ScriptBlock {Delete-WindowsFeature -Name Windows-Server-Backup}
7. Which of the following is *not* a best practice for performing new forest deployments?
- A. Ensure that each domain has at least two domain controllers for fault tolerance and to ensure availability. Only one of these domain controllers needs to be writeable; the other can be an RODC.
 - B. Make sure that each site in your domain has a sufficient number of domain controllers to service the needs of users for logging on and accessing network resources.
 - C. Whenever possible, keep the design of your forest simple by having only one domain.
 - D. Install only the AD DS and DNS Server roles on your domain controllers and no other server roles.
8. Which of the following is not a cmdlet from the ADDSDeployment module?
- A. Install-ADDSDomain
 - B. Install-ADDSDomainController
 - C. Uninstall-ADDSDomainController
 - D. Get-ADForest
9. If the recycled object lifetime for a directory object has expired, what state is the object in?
- A. Live
 - B. Deleted
 - C. Removed
 - D. Recycled

10. Which approach to ensuring DHCP availability involves dividing up the IP address pool of a scope between two DHCP servers, typically using the ratio 80/20?
- A. Server cluster
 - B. Split scope
 - C. Standby server
 - D. DHCP failover
11. Your organization has a mixed environment of servers running Windows Server 2012 and Windows Server 2008 R2. You want to manage your servers from a secure workstation running Windows 8, so you install the Remote Server Administration Tools for Windows 8 on this workstation. Which of the following statements best describes the management capabilities of this arrangement?
- A. You can manage all roles and features on servers running Windows Server 2012 and some roles and features on servers running Windows Server 2008 R2.
 - B. You can manage all roles and features on servers running Windows Server 2012 and Windows Server 2008 R2.
 - C. You can manage all roles and features on servers running Windows Server 2012 but no roles and features on servers running Windows Server 2008 R2.
 - D. You can manage all roles and features on servers running Windows Server 2012, but you need to install the Remote Server Administration Tools for Windows 8 on a workstation running Windows 7 to manage roles and features on servers running Windows Server 2008 R2.
12. Which edition and installation option of Windows Server 2012 are the best choices for deploying Hyper-V hosts in a datacenter environment?
- A. Standard edition on Server Core
 - B. Standard edition on Server With A GUI
 - C. Datacenter edition on Server Core
 - D. Datacenter edition on Server With A GUI
13. In which of these scenarios might you try to optimize a virtual hard disk by compacting, expanding, shrinking, or merging it?
- A. When the disk is associated with a virtual machine that has snapshots
 - B. When you need to free up storage space on the host
 - C. When the disk is associated with a virtual machine that has replication enabled
 - D. When the disk is associated with a chain of differencing disks

14. What is the minimum number of physical disks required for a storage pool that will be used to provision resilient volumes for a failover cluster consisting of two file servers?
- A. 1
 - B. 2
 - C. 3
 - D. 4
15. Which of the following storage-management utilities is not deprecated in Windows Server 2012?
- A. DiskPart
 - B. DiskRAID
 - C. The Computer Management snap-in
 - D. WMI
16. Which of the following *cannot* be used as a targeting item for preference item-level targeting?
- A. MAC Address Range
 - B. Organizational Unit
 - C. Registry Match
 - D. Desktop Computer
17. Your IT manager is concerned that someone is trying to gain access to your company's computers by logging on with valid domain user names and various password attempts. Which audit policy should you monitor for these activities?
- A. Policy Change
 - B. Account Logon
 - C. Privilege Use
 - D. Directory Service Access
18. Using _____ you can provide directory services for directory-enabled applications without incurring the overhead of domains and forests and the requirements of a single schema throughout a forest.
- A. ADAM
 - B. IFM
 - C. AD LDS
 - D. None of the above

19. Which of the following statements is *not* correct concerning the deployment of the first Windows Server 2012 domain controller in an existing forest running an earlier version of Windows Server?
- A. You must prepare the forest and domain and extend the schema by manually running Adprep before you use Server Manager to deploy the first Windows Server 2012 domain controller in an existing forest running an earlier version of Windows Server.
 - B. You must select the Add A Domain Controller To An Existing Domain option on the Deployment Configuration page of the AD DS Configuration Wizard to deploy the first Windows Server 2012 domain controller in an existing forest running an earlier version of Windows Server.
 - C. You can use the Install From Media (IFM) deployment method to deploy the first Windows Server 2012 domain controller in an existing forest running an earlier version of Windows Server.
 - D. If your current logon credentials have insufficient privileges to deploy the first Windows Server 2012 domain controller in an existing forest running an earlier version of Windows Server, you can specify different credentials on the Deployment Configuration page of the AD DS Configuration Wizard.
20. Which Windows PowerShell cmdlet allows you to determine whether any printers installed on a print server are shared?
- A. Get-Printer
 - B. Get-PrinterConfiguration
 - C. Get-PrinterProperty
 - D. Get-PrintServer

SECTION B: Answer any **THREE (3)** questions in the answer booklet provided. All questions carry equal marks.

Question 1

- (a) Describe **FOUR (4)** fundamental configurations for Windows printer deployment with the aid of relevant diagrams. (12 marks)
- (b) Identify and describe **FOUR (4)** security guidelines for the Administrator account. (8 marks)

Question 2

- (a) What is the Windows PowerShell command (*syntax*), to execute the following:
- (i) Install the Hyper-V role by using the Install-WindowsFeature cmdlet
 - (ii) Create a new VM by using the New-VM cmdlet
 - (iii) Create a new virtual switch by using the New-VMSwitch cmdlet
 - (iv) Configure the memory settings for a VM by using the Set-VMMemory cmdlet
- (10 marks)
- (b) Discuss the **FIVE (5)** conditions to migrate data between servers.
- (10 marks)

Question 3

- (a) Provide the steps to add servers in Server Manager.
- (7 marks)
- (b) List **SEVEN (7) Operating Systems (OSs)** that you can install in **Virtual Machines (VMs)**.
- (7 marks)
- (c) List the **SIX (6)** steps of the stateless address autoconfiguration process.
- (6 marks)

Question 4

- (a) Silva is the systems administrator for a company that operates an Active Directory network consisting of a single domain and five sites, which represent the head office and four branch offices. Each branch office is configured with a **Read-Only Domain Controller (RODC)**. Silva receives a call from a branch office employee named Jenny, who is experiencing extremely long delays in logging on to the network. Explain the most probable cause and step-by-step solution.
- (8 marks)
- (b) Identify and explain **FOUR (4)** advantages of running servers using Server Core.
- (8 mark)

(c) Define the following options in the Configure Share Settings page:

- (i) Enable Access-Based Enumeration
- (ii) Allow Caching Of Share
- (iii) Enable BranchCache On The File Share
- (iv) Encrypt Data Access

(4 mark)

~ The End ~
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