**NETW230 Final Exam Study Guide**

**YOU MAY WANT TO PRINT THIS GUIDE.**

**1.** **The Final Exam is open book, open notes.**   
The maximum time you can spend in the exam is 3 hours and 30 minutes. If you have not clicked the Submit for Grading button by then, you will be automatically exited from the exam. In the Final Exam environment, the Windows clipboard is disabled, so you still will not be able to copy exam questions or answers to or from other applications.

2. You should click the Save Answers button in the exam frequently.  
This helps prevent connection timeouts that might occur with certain Internet service providers and also minimizes lost answers in the event of connection problems. If your Internet connection does break, when you reconnect you will normally be able to get back into your Final Exam without any trouble. Remember, though, that the exam timer continues to run while students are disconnected, so students should try to log in again as quickly as possible. The Help Desk cannot grant any student additional time on the exam.

**3.** **See Syllabus "Due Dates for Assignments & Exams" for due date information.**

**4. Reminders**

* You will only be able to enter your online Final Exam one time.
* Click the Save Answers button often.
* If you lose your Internet connection during your Final Exam, log on again and try to access your Final Exam. If you are unable to enter the Final Exam, contact first the   
  Help Desk and then your instructor.
* You will always be able to see the time remaining in the Final Exam at the top right of the page.

**5. Assessments with Multiple Pages**

* Make sure you click the Save Answers button before advancing to the next page (we also suggest clicking on Save Answers while you are working).
* Complete all of the pages before submitting your Final Exam for instructor review.
* Do not use your browser's Back and Forward buttons during the Final Exam.
* Please use the provided links for navigation.

**6. Submitting Your Final Exam**

* When you are finished with the Final Exam, click on the Submit for Grading button.
* **Please note: Once you click the Submit for Grading button, you will not be able to edit or change any of your answers.**

**7. Exam Questions**

* There are 10 randomly selected multiple choice questions, each worth 4 points, for a total of 40 points.
* There are seven randomly selected short answer questions, each worth 10 points, for a total of 70 points.
* There are three randomly selected essay questions, each worth 40 points, for a total of 120 points.
* The Final Exam covers all course TCOs and Weeks 1–7.
* This means that not everyone will have the same questions. Even if you do have some of the same questions, they may not be in the same order. These questions are distributed amongst the TCOs. The entire exam is worth *230 points.*
* On the essay questions your answers should be succinct, fully address each part of the question, and demonstrate your knowledge and understanding in a concise but complete answer. Most essay questions require answers that are a couple of paragraphs (not a couple of sentences) that directly speak to each part of the question. Some students opt to work on the essay questions first, due to their higher point value and length of time needed to adequately address each question. But this is entirely your choice.
* **Remember always use proper citation when quoting other sources.**This means that any borrowed material (even a short phrase) must be placed in quotation marks with the source (URL, author/date/page #) immediately following the end of the passage. Changing a few words in a passage does not constitute putting it in your own words, and proper citation is still required. Borrowed material should not dominate a student’s work, but should only be used sparingly to support your own thoughts, ideas, and examples. Heavy usage of borrowed material (even if properly cited) can jeopardize the points for that question. Uncited material can jeopardize a passing grade on the exam. As a part of our commitment to academic integrity, your work may be submitted to turnitin.com, an online plagiarism checking service, so please be very mindful of proper citation.

**8. Some of the key study areas are as follows. While these are key areas, remember that the exam is comprehensive for all the assigned course content, and this study guide may not be all inclusive.**

TCO 1

* Understand how business requirements affect technology decisions.
* Understand the different editions of Windows Server 2008 and where they could be used.
* Understand active directory, its installation, and its uses in an enterprise.
* Understand how active directory is organized.
* Explain a device driver and its usage in Windows Server 2008.
* Explain the process of authentication in Windows Server 2008 and the different methods supported.
* Understand the functional levels available.
* Understand the features of the server manager and ServerManagerCmd.

TCO 2

* Understand how device driver signing is administered, along with its effects.
* Explain the recommended strategy to implement security groups.

TCO 3

* Understand the difference between shared folder permissions and NTFS permissions and how Windows Server 2008 evaluates them for users.
* Understand and explain active directory’s structure in relation to users.

TCO 4

* Explain the administrative process for installing printers in the network.
* Describe the troubleshooting process for printer drivers.
* Understand the different methods to install and administer printers, and explain how they are used within the network.
* Understand printer pooling.
* Understand spooling of print jobs.
* Explain how printers are made available to users within the network.

TCO 5

* Understand the various administrative tools available in Windows Server 2008.
* Explain the recommended process for system administrators to use when starting new processes and applications.
* Compare and contrast the options available for creating storage fault tolerance.

TCO 6

* Understand troubleshooting strategies for system and network performance.
* Explain useful recovery strategies for storage systems.
* Understand the common benchmarks in server monitoring.
* Understand how you can use task manager to monitor services.
* Explain strategies for recovering a system that will not boot.

TCO 7

* Describe the different ways to administer remote systems.
* Explain the primary method of auditing a Windows Server 2008 system.
* Describe the process for distributing software updates to users and how it is administered.

TCO 8

* Describe a comprehensive backup strategy.
* Describe the recovery strategy for restoring data from a backup set.
* Explain the tools and features that Windows Server 2008 provides for managing data storage for users.

TCO 9

* Explain the features that are available to administrators for implementing security.
* Understand how NTFS permissions affect security.
* Understand PPTP and other related protocols.
* Understand the options in remote access policy.

**9.** Areas that were discussed in the threads will be prime targets.

**10.** Lab assignments will also be prime targets for revisiting.

**11.** Reviewing the TCOs will also be a great preparation for the Final Exam; I have listed them below for your convenience.

|  |  |
| --- | --- |
| 1 | Given a business situation including network requirements, design, install, and configure a Windows-based network operating system (NOS) with all applicable services, addressing basic considerations, such as types of hardware that can be considered; software requirements including applications; LAN design including configuration and installation options and network protocols; identification of the Windows domain structure, active directory and group security structure; and estimation and configuration of resources including CPU and memory sizing, choice of server architecture including bus types, disk sizing, and choice of file system that is most appropriate for the design parameters. |
| 2 | Given a business situation including a network with Windows Server, design a structure including network folders and home directories that meets the business requirements. |
| 3 | Given a business situation describing file sharing requirements and controls among user groups and individuals, design and implement a set of user accounts, client connectivity, groups, folders, and files. |
| 4 | Given a business situation, describe the most appropriate requirements and guidelines for designing a Windows network printing environment that includes local and network printing. |
| 5 | Given a business situation, develop a formal task list for assuring reliability plus monitoring and optimization for Windows Server and network connectivity. |
| 6 | Given a business situation develop and describe a formal Windows 2008 troubleshooting process strategy. |
| 7 | Given a Windows Server-based system in a business situation, design an auditing system to help the network administrator in dealing with the day-to-day operation of the network, including tracking and documenting suspicious activities in the network. |
| 8 | Given a business network situation, design and implement a backup strategy for data and system recovery from a catastrophic failure, such as complete loss of electrical power to the servers, complete failure of the server’s hard drive, server computer software crash, network hardware crash, or even virus or hacker caused failure of the system. |
| 9 | Given a business situation that includes groups of users in a particular business setting with specific security goals, develop security policies and an overall security strategy that will satisfy the security goals, and describe the implementation of those strategies. |

Finally, if you have any questions for me, please post them to our Q & A or e-mail me. Good luck on the exam!