**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **4BT7120** | Roll No. | Total Printed Pages: 2 |
| **4BT7120** |  |
| B. Tech. IV Year VII- Semester (Main/Back) End Semester Examination, November 2022  **(CC)** | |
| **BCC07103 : Server Security Management** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What type of rootkit will patch, hook, or replace the version of system call in order to hide information, justify the given statement in detail with appropriate example? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Elaborate the concept of limiting system access and controlling using behaviour with related sketch and example. | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | What port is used to connect to the Active Directory in Windows 2000, mention and elaborate in detail? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | How restricting access to software is related to conceptual understanding on server security, illustrate in detail. | **(6)** | **Remembering** |
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|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Elaborate the concept of Server Hardening also the four important check points used for Securing and Hardening your Server Environment. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | What is risks assessment in server security management, explain? | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.4** |  | How can you establish and use a Secure Connection for securing server, also list in the key steps to be followed while planning and deployment illustrate in detail. , elaborate in detail with appropriate sketch and example? | **(12)** | **Applying** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Plan, design and list in detail the steps of Windows Server 2012 highly virtualized infrastructure. | **(6)** | **Understanding** |
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|  | **(b)** | How small-to-midsized businesses ,which have traditionally been left at the door when features that are needed, such as DFS Replication were available only in Enterprise or data centre OS editions are related to windows server 2012 R2,elaborate with appropriate example. | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | What is the Security Compliance Toolkit, illustrate with appropriate example in details? | **(6)** | **Understanding** |
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|  |  |  |  |  |
|  | **(b)** | What are security baselines, elaborate in detail its relation with windows server 2012 R2 OS and baseline security configuration also mention briefly the appropriate reason why security baselines are needed? | **(6)** | **Remembering** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What is server security model, elaborate in detail with appropriate sketches and examples? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | A Senior Cloud Professional of a MNC Company in Chennai has a task to perform Bypassing RHEL Linux server root access. Suggest with proper explanation including commands and sketches the related steps for the same and mention about server security related to this topic. | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | List and illustrate in detail the STRIDE and DREAD methods. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | A Senior Cloud Professional of a MNC Company in Bangalore has a task to perform Bypassing RHEL Linux server root access. Suggest with proper explanation including commands and sketches the related steps for the same and mention about server security related to this topic. | **(6)** | **Applying** |
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|  |  | **UNIT V (CO5)** |  |  |
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| **Q.9** | **(a)** | Install nginnx web server and configure Nginx:Setup SSL Reverse Proxy, illustrate in detail with related sketches and examples. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Mention and explain in detail the concept of configuring access controls related to security web server. | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Implement and elaborate in detail the term Securing Apache 2.4 webserver OS | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Illustrate in detail with appropriate sketches and examples the tools and techniques for web server. | **(6)** | **Remembering** |