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| **Assignment Case** |  |
| CPEN6098 | CPEN6108 | CPEN6109  Computer Networks |
| **Computer Engineering** | **O213-CPEN6098-VC06-01** |
| ***Valid on*** *Odd Semester Year 2020/2021* | **Revision 00** |

1. Seluruh mahasiswa tidak diperkenankan untuk:

*All students are not allowed to:*

* + 1. Melihat sebagian atau seluruh jawaban mahasiswa lain,

*Seeing a part or the whole answer from other student*

* + 1. Menyadur sebagian maupun seluruh jawaban dari buku,

*Adapted a part or the whole answer from the book*

* + 1. Mendownload sebagian maupun seluruh jawaban dari internet,

*Downloading a part or the whole answer from the internet,*

* + 1. Mengerjakan soal yang tidak sesuai dengan tema yang ada di soal,

*Working with another theme which is not in accordance with the existing theme in the matter of the case,*

* + 1. Melakukan tindakan kecurangan lainnya,

*Committing other dishonest actions,*

* + 1. Secara sengaja maupun tidak sengaja melakukan segala tindakan kelalaian yang menyebabkan hasil karyanya berhasil dicontek oleh orang lain / kelompok lain.

*Accidentally or intentionally conduct any failure action that cause the results of the project was copied by someone else / other groups.*

1. Jika mahasiswa terbukti melakukan tindakan seperti yang dijelaskan butir 1 di atas, maka **nilai mahasiswa** yang melakukan kecurangan (menyontek maupun dicontek) akan di – **NOL** – kan.

*If the student is proved to the actions described in point 1 above, the score of the student which committed dishonest acts (cheating or being cheated) will be “Zero”*

1. Perhatikan jadwal pengumpulan jawaban, segala jenis pengumpulan jawaban di luar jadwal tidak dilayani.

*Pay attention to the submission schedule, all kinds of submission outside the schedule will not be accepted*

1. Persentase penilaiaan untuk matakuliah ini adalah sebagai berikut:

*Marking percentage for this subject is described as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| 100% | - | - |

1. Software yang digunakan pada matakuliah ini adalah sebagai berikut:

*Software will be used in this subject are described as follows:*

|  |
| --- |
| **Software**  *Software* |
| Cisco Packet Tracer 7.3.0  Winbox 3.24  VM Mikrotik 6.45.9 |

## Ekstensi file yang harus disertakan dalam pengumpulan tugas mandiri dan proyek untuk matakuliah ini adalah sebagai berikut:

*File extensions should be included in assignment and project collection for this subject are described as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| DOCX, PKA | - | - |

## Soal

*Case*

1. Create a **cable** to connect a **Computer** to **Computer**.
2. Velvet Company has **network address 192.168.100.0/24** and they want to create **3 networks** under their main network. The details are written below:
   * **Finance Division – 25 computers**
   * **Marketing Division – 37 computers**
   * **Operational Division– 28 computers**

This Company wants you to handle the works. There are the details of the works.

1. Create **new subnet mask and IP address range for every network** using **FLSM**.
2. **Open the “Case 02.pka”** file and follow the instructions shown in the case to **create** **a LAN connection**. **Make sure that each PC is connected to each other**.
3. Velvet Company has **network address 192.168.100.0 with network mask 255.255.255.0.** The company wants **3 sub-networks** under their main network. The details are written below:
   * **Designer Division – 10 computers**
   * **Programmer Division – 17 computers**
   * **DevOps Division – 8 computers**

Velvet Company wants you to make the sub-network using **VLSM**.

1. You are asked to create a LAN connection based on the picture on below. **Open** “**Case 04.pka**” file and follow the instructions shown in the case **to create the routing configuration using static routing**.

