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| |  |  | | --- | --- | | **zz`A1 COURSEWORK QUESTION PAPER:** | **Autumn Semester 2019** | |  |

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| **Module Code:** | ADipIT08 |
| **Module Title:** | Introductory Computer Networking & IT Security |
| **Module Leader:** | Kritika Tuladhar |
| **Coursework Type:** | Individual |
| **Coursework Weight:** | This coursework accounts for 60%of your total module grades. |
| **Submission Date and Time:** | Week 13 |
| **Submission Instructions:** | Submit the following to iAcademy’s and your institute’s RTE department before the due date:   * Softcopy – Report |

**Academic Misconduct Notice**

iAcademy and its University Partners take any form of Academic Misconduct such as Plagiarism seriously. Examples of Academic misconduct include but are not limited to the following:

* Falsifying coursework data and results
* Plagiarism of another person’s work and presenting it as your own
* Collusion to present work jointly completed as your solely own
* Assisting in any of the above activities

*Remember, copying someone else’s work is an offence without acknowledgement, whether it is text or diagrams, from paper or from electronic sources.*

**Introduction:**

The purpose of this assessment is to enable students to demonstrate their academic skills in the following:

* Connecting different networking devices like routers and switching
* Understanding basic routing and switching commands on cisco devices

**Coursework Instructions:**

* This coursework is to be given out during Week 3 or Week4.
* Students must work individually to attempt this assessment. Where there are exceptional circumstances, students may seek approval from the module lecturer/tutor to attempt this coursework in smaller groups.

**Coursework Deliverables:**

* Students are required to submit the hardcopy and softcopy of their report.
* The softcopy files shall be named as follows:
  + A19 ADipIT08 A1 CW Report <Student ID>
* No submission constitutes an automatic failure.

**In the Event of Failure:**

* Students that fail this assessment component will be required to revise and re-submit their coursework (Report) to iAcademy’s and your institute’s RTE department for grading before a designated deadline during the re-sit period.
* No viva and continuous assessment will be required. The marks awarded for grading the re-sit report will be scaled accordingly to account for the missing components.
* The maximum grade that can be obtained for all re-sit assessment components is Grade E.

**Introduction:**

This course work has been divided into three components.

* Component 1: Report (30 marks)
* Component 2: Viva (20 marks)
* Component 3: Continuous Assessment (10 marks)

**Component 1: Report (30 marks)**

**Coursework Brief:**

In the coursework student have to prepare **3 different working networks** with multiple routers, switches and users. The first network must have used static routing and at least one dynamic routing protocol. The second network must have one dynamic routing and switching techniques. The third network must have implemented ACL. All the users should be able to communicate with each other with the use of proper IP addressing in each node.

**Report Components:**

The report shall consist of the following key components.

|  |  |
| --- | --- |
| **Components** | **Guidelines** |
| **Cover page** | Report Title, Module Title, Student Names, Student IDs, Date of Submission. |
| **Table of Content** | Table of contents with page numbers |
| **Introduction** | Make the network diagrams using cisco packet tracer |
| **Simulation** | Provide working simulation with IP Address plan, interface description etc. |
| **Testing** | Check and provide the verification of the connectivity of the network. |
| **Conclusion** | The students must evaluate their work, reflecting what they have learnt. |
| **Appendices (if any)** | Any external content that might be used to support the clarity and credibility of points mentioned in the report. |

**Style sheet for the report:**

*These guidelines MUST be followed in writing up the Report*

* Use A4 paper, printed single sided
* Font – Arial
* 12 point size for normal text, 14 point size for headings
* Line spacing of 1.5 between lines of text
* Leave a blank line between paragraphs
* Page numbers are a must
* Use Spell Check – there should be NO words spelled incorrectly
* Referencing (Harvard style referencing) is needed where ever necessary. Reference correctly (a properly structured list at the end of your Report detailing all the books, web sites etc. you have cited)
* Pay attention to all points of punctuation and grammar
* Be professional (no childish clip-art or decoration)
* Use formal language (Don’t use ‘*don’t’* or ‘*wouldn’t’* etc. – say ‘*do not* ‘or ‘*would not’. Do not use ‘lots of’ or ‘lots’, ‘basically’, or other imprecise words’.*)
* Grammar - Use the third person where possible (Don’t use the word ‘I’ or ‘you’)
* Protect your work by putting your group name and the module code in the footer of each page

If you are asked to submit a physical copy - Make sure you bind your work so that there are no loose pages.

**Component 2: Viva (20 marks)**

Each student would be required to present their network simulations for between 5 to 10 minutes.

The presentation will be assessed on the following basis:

1. Proper use of routing and switching.
2. Verification of the connectivity.
3. Knowledge of dynamic routing, switching techniques and ACL.
4. Handling of Questions.

**Component 3: Continuous Assessment (10 marks)**

Besides submitting a report and giving viva, the student will have to provide evidence of continuous assessments done throughout the semester. There will be various submission of the assessments either as classwork or homework.

**Marking Scheme:**

The marking scheme for the report shall be as follows:

**Report (30 marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Components** | **Mark** | **Remarks** | |
| 1. **Introduction** | /6 |  | |
| 1. **Simulation**     * Working simulation, completeness of configuration, IP address plan, Interface descriptions. | /12 |  | |
| 1. **Testing**    * Verification of the connectivity of the network. | /6 |  | |
| 1. **Conclusion** | /2 |  | |
| 1. **Report Format**  * Quality of quality of documentation, cover page, contents page and page number etc and proper formatting. | /4 |  | |
| **Total** | /30 |  |

The marking scheme for the viva shall be as follows:

**Viva (20 marks)**

|  |  |  |
| --- | --- | --- |
| **Viva** | **Mark** | **Remarks** |
| * Proper use of routing and switching. | / 6 |  |
| * Verification of the connectivity. | / 6 |  |
| * Knowledge of dynamic routing, switching techniques and ACL. | / 6 |  |
| * Handling of Questions | / 2 |  |
| **Total** | **/ 20** |  |

The marking scheme for the Continuous Assessment shall be as follows:

**Continuous Assessment (10 marks)**

|  |  |  |
| --- | --- | --- |
| **Continuous Assessment (10%)** | **Mark** | **Remarks** |
| * Continuous Assessment 1 | / 2 |  |
| * Continuous Assessment 2 | / 2 |  |
| * Continuous Assessment 3 | / 2 |  |
| * Continuous Assessment 4 | / 2 |  |
| * Continuous Assessment 5 | / 2 |  |
| **Total** | **/ 10** |  |

**---End of Coursework Instructions---**