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| nctlogosmall | **NIZWA COLLEGE OF TECHNOLOGY**  **INFORMATION TECHNOLOGY DEPARTMENT** | **SET A** |
| **Final Examination**  **Semester 1, 2019 - 20**  **ITAD1100 – Advanced IT Skills**  **Date:** Wednesday, 18-December-2019 **Time:** 09:00 AM – 11:00 AM | | |

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| Max Marks | **55** | Time Allocation | **2** hours |

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| --- | --- | --- | --- |
| Student ID |  | Student Name |  |
| Section |  | Level | Diploma |

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| Instructions to the Students |
| * Read the questions carefully before you answer. * All questions are compulsory. * Use appropriate functions to answer the questions. * Save your work after answering each activity. * The total number of pages is **4** including the cover page. |

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| --- | --- | --- | --- |
| **User Name** |  | **Password** |  |

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| **Question Type** | **Total Marks** | **Marks Obtained** |
| **Section A ( Cyber Security ) Online** | **20** |  |
| **Section B (Advanced Spreadsheets)** | **35** |  |
| **Total Marks** | **55** |  |

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| Marked By | Checked/Re-marked by |
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Version 1.0

**SECTION A (20 Marks)**

(Cyber Security - Objective Type Questions)

Log into moodle, click the **Final Exam (**Objective Type Questions) link and answer all the questions. Submit and Close.

**SECTION B (35 Marks)**

(Advance Spreadsheet)

Open **Students.xlsx** work file from exam login Z: drive and do the following:

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| --- | --- | --- | --- |
| **S. No.** | | **Question** | **Marks** |
| Open the worksheet **Common** | | | |
| 1 | | In **cell E4,** generate a **random** number between **30** and **50** | 1 |
| 2 | | In **cell E6, Round** upthe number given in **cell** **G6** to two decimal places**.** | 1 |
| 3 | | In **cell E8, Round** the number given in **cell** **G8** to its nearest multiple of **7 (away from zero)**. | 1 |
| 4 | | In **cell** **E10**, find the **Quotient**, when the number given in **cell G10** is divided by **5**. | 1 |
| 5 | | In **cell E12**, find the sum of **total surface area** and **volume of a Cone** using **power()** and **pi()** functions**,** where the value of **r** is **3 cm** andthevalueof **h** is **9 cm.**  ***[ Sum of total surface area and volume of a cone = πr(r+h) + πr2 ]*** | 2 |
| 6 | | In **cell** **E14,** find the value of  where the value of **n**=**7** and **r**=**3**. | 2 |
| 7 | | In **cell** **J13**, display the **sign** of the number given in **cell** **I13**. Replicate the formula to the **cell range J14:J16.** | 1 |
| 8 | | In **cell** **E16,** find the solutionof the equation using the square root function, where the value of **x** is **2**.  Save the worksheet **Common.** | 2 |
| Open the worksheet **Conversion** | | | |
| 9 | In **cell** **D5**, round up the given number in **cell** **C5** to its nearest **even** number. Replicate the formula to the cell range **D6:D8**. | | 1 |
| 10 | In **cell** **D12**, display only the **decimal** **part** of the number given in **cell** **C12**. | | 1 |
| 11 | In **cell** **H12**, find the **Natural** **Logarithm** of the number given in the **cell** **G12.** | | 1 |
| 12 | In **cell** **F16**, remove both **extra** **space** and **special** **symbols** from the text given in **cell** **E16**. | | 1 |
| 13 | In **cell** **F20**, find the **Greatest** **Common** **Divisor** of **Number 1**, **Number 2** and **Number 3**. Replicate the formula to the **cell** **range** **F21:F22**.  Save the worksheet **Conversion.** | | 1 |
| Open the worksheet **Students** | | | |
| 14 | | In **cell G16, count** the number of students who have not paid the **Admission** **Fee**. | 1 |
| 15 | | In **cell K7,** find the **Course** **Term**.  **Criteria:** If **Duration(Months)** is **more than 3,** Display **“Long”,** otherwise **“Short”.**  Replicate the formula in cell range **K8:K14**. | 1 |
| 16 | | In **cell G18,** find the mode of the **Exam** **Fee**. | 1 |
| 17 | | In **cell G20**, find the **sum** of **Oracle** **Exam** **Fee** only. | 1 |
| 18 | | In **cell range L7:L14,** find whether a student will receive **Fee** **Concession** or not.  **Criteria:** Ifthe **Duration** is **greater than 3 OR Monthly Fee** is **greater** **than** **or** **equal** **to** **30** then**,** Display **“Yes”,** otherwise **“No”.** | 1 |
| 19 | | In **Cell M7,** Find the **Grade** based on the following conditions:  (i) 90< Marks <=100 then give **Grade** “**A**”  (ii) 80< Marks <= 90 then give **Grade** “**B**”  (iii) 70< Marks <=80 then give **Grade** “**C**”  (iv) Marks <=70 then give **Grade** “**D**”  Replicate the formula in **Cell Range M8:M14**.  Semester 1, AY 2019-20 ITAD1100 – Advanced IT Skills Page 3 of 4 | 2 |
| 20 | | In **cell range N7:N14,** find the **Certificate** **Status**.  **Criteria:** If **Academy** is **Oracle AND Exam Fee** is **more than 20** then**,** Display **“Ok”,** otherwise **“Wait”.** | 1 |
| 21 | | In **cell** **G22**, find the number of **Male** Students who got **Grade** **B.** | 1 |
| 22 | | In **cell** **G24**, find the **Sum** of **Microsoft** **Admission** **Fee** for **Female** **Students**. | 1 |
| 23 | | In **cell** **G26**, find the **Sum** of all **Exam** **Fee** rounded to its nearest integer. | 1 |
| 24 | | In **cell** **range** **I7:I14**, highlight the cells that contain **Total Monthly Fee** less than **50** with **light** **red** fill.  Save the worksheet **Students**. | 1 |
| Open the worksheet **Subjects** | | | |
| 25 | | In **cell E14**, display the **Name** of the student who got **maximum** **marks**. | 2 |
| 26 | | In **cell** **C29,** display the **Subject Name** of the **Subject** **Code** given in **cell** **C27** by using **VLOOKUP**. | 1 |
| 27 | | In **cell J15**, display **today’s** **date**. | 1 |
| 28 | | In **cell J17**, display the decimal numbers (19,35,40) in Time format. | 1 |
| 29 | | In **cell J19**, display the weekday of the date in **cell J15**. | 1 |
| 30 | | In **cell J21**, display the hour of the time in **cell J17**.  Save the worksheet **Subjects**. | 1 |

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