**CIE FOR PATHWAY COURSES**

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| **Programme** | | **Computer Science & Engineering** | **Semester** | | **V** | |
| **Course** | | **Cyber Security** | **Max. Marks** | | **30** | |
| **Course Code** | | **20CS54I** | **Duration** | | **4 hours** | |
| **Name of the course coordinator** | | **Shwetha** | **Test** | | **I** | |
| **Note: Answer one full question from each section.** | | | | | | |
| **Qn.No** | **Question** | | **CL**  **L3 /L4** | **CO** | **PO** | **Marks** |
| **Section-1 (Theory) – 10 Marks** | | | | | | |
| **1.a)** | Eloborate 3 dimentional Mccumber cube . | | L4 | 2 | 2,3,4 | 5 |
| **b)** | List and Explain 5 types of malware. | | L3 | 1 | 2,3,4 | 5 |
| **2.a)** | Write the steps of RSA algorithm given by p=17,q=11and e=7 find the decryption key. | | L3 | 2 | 2,3,4 | 5 |
| b) | Find the GCD of(160,70),and  Find Totient (360),  totient (777) | | L4 | 1 | 2,3,4 | 5 |
| **Section-2 (Practical) - 20 Marks** | | | | | | |
| **3)a** | Write a steps for crypto system (Encryption ,Decryption ,Digital signature). | | L4 | 2 | 2,3,4 | 10 |
| **b)** | Install Avast antivirus write the steps. | | L3 | 1 | 2,3,4 | 10 |

**CERTIFICATE**

**I Sharanamma Nadahalli , being the course coordinator for the Cyber Security course with the question paper code 20CS54I, here by certify that the questions are set for 3rdCIE as per the prescribed weeks and cognitive level set by CDC to assess the related course outcomes and program outcomes.**