|         |                          |                             |                          |           |                | stration No :  | Regi             | 1           |
|---------|--------------------------|-----------------------------|--------------------------|-----------|----------------|--|------------------|-------------|
| B.Ted   | 210                      | 210                         | 210                      |           | 210            | mber of Pages : 01   | al Nu<br>210     | Tota        |
| CS7G0   |                          | nination 2019-20            | Back Exam                | egular .  | mester R       | 7 <sup>th</sup> Se   |                  |             |
|         |                          | K SECURITY                  | -                        |           | <b>LYPTOGF</b> | CF   |                  |             |
|         |                          |                             | ICH : CSE<br>larks : 100 |           |                |  |                  |             |
|         |                          | _                           | : 3 Hours                |           |                |  |                  |             |
| ny TWC  | m Part-II and an         |                             | E : HRB346               |           | rt-1) whi      | r Question No.1 (Pa  | CWD              | Δn          |
| iy 1110 | iii i art-ii ana ari     | any Elona nom               | n Part-III.              |           | (i t- i ) Will | Question No.1 (1 a   | 134461           | <b>Λ</b> ΙΙ |
|         | rks.                     | n indicate marks            | nand margir              | e right   | ures in th     | The fig  |                  |             |
|         |                          |                             | Part- I                  |           |                |  |                  |             |
| (2 x 1  |                          |                             |                          |           |                | Only Short Answer  | ۵,               | Q1          |
|         |                          | y.                          | ieganograpny             | ny and s  |                | Distinguish between<br>Define integrity in Se  | a)<br>b)         |             |
|         | n cipher? <sup>210</sup> | m the substitution          |                          |           | cipher and     | What is transposition  | <b>c)</b> 0      |             |
|         |                          |                             |                          |           |                | What is the key size   | d)               |             |
|         | votosystems              | symmetric-key cryp          |                          |           |                | Find the value of Φ(8 Mentioned the difference of the difference | e)<br>f)         |             |
|         | yptocyctorno.            |                             |                          |           |                | Compare convention   | g)               |             |
|         |                          |                             |                          |           |                | What is message dig  | h)               |             |
|         |                          | •                           |                          |           |                | What do you mean b   | i)               |             |
|         | 210                      | 210                         | 210                      |           | wnat are it    | What is a worm and   | <b>j)</b><br>210 |             |
|         |                          |                             | Part- II                 |           |                |  |                  |             |
| (6 x 8  |                          |                             |                          |           |                | Only Focused-Shor  |                  | Q2          |
| ,       | RYPTOGRAPHY"             | ze? Encrypt "CRY            | ssible key size          | nat is po | ier and wh     | What is additive cipl with Key=7.  | a)               |             |
|         |                          | m.                          | dean algorithn           | the Eucl  | 60) using      | Find the GCD of (25)   | b)               |             |
|         |                          | ate 3 <sup>12</sup> mod 11. |                          |           |                | Write both versions of   | c)               |             |
|         |                          |                             | •                        |           |                | Write the Chinese re   | d)               |             |
|         | 210<br>nsvstem           | 210<br>of Floamal cryptos:  |                          |           |                | Explain improved Fig<br>Write the encryption,  | e)<br>f)         |             |
|         | osystem.                 | or Eigamar cryptos          | generation o             |           |                | Explain MIME in E-m  | g)               |             |
| f       | on. What kind of         | hic hash function.          | ,                        | SHA-51    | es of the      | List the main featur   | h)               |             |
|         | a lara vitla va          |                             |                          |           |                | compression function   | :\               |             |
|         | e algorithm.             | •                           |                          |           |                | What is man in the me<br>Explain all steps of the  | i)<br>j)         |             |
|         |                          | altable example.            |                          |           |                | Explain briefly about  | k)               |             |
|         | 210                      | 210                         | •                        |           |                | What is a digital sign   | <b>4)</b> 0      |             |
|         |                          |                             | Part-III                 |           |                |  |                  |             |
| (16)    | -                        | -                           | •                        | •         |                | Only Long Answer What do you mean b  |                  | Q3          |
| (16)    |                          |                             | nents.                   | ts comp   | S with all     | Explain simplified DE  |                  | Q4          |
|         | es. <sub>210</sub>       | design techniques           | Explain the o            | its types | d what are     | What is a firewall and   | 210              | Q5          |
| (16)    | 210                      |                             |                          |           |                |  |                  |             |