|     |                                         | Registration No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                                                                                    |                                                                    |                       |                  |
|-----|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------|------------------|
| 210 | Total                                   | Number of <sub>2</sub> Pages:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>02</b> <sub>210</sub>                                  | 210                                                                                | 210                                                                | 210 B.Tech<br>PCP7H00 |                  |
| 10  | <b>E</b><br>210                         | nch: AEIE, AERO,<br>LECTRICAL, ENV,<br>MINE<br>210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Inter<br>AUTO, BIOM<br>ETC, FAT, II<br>ERAL, MININ<br>210 | EE, IT, MANUFA<br>G, MME, PE, PI<br>Time: 3 Hours<br>Max Marks: 100<br>Q Code E264 | IOT)<br>CHEM, CIVIL, CS<br>AC, MANUTECH,<br>LASTIC, TEXTILE<br>210 | MECH, METTA,          | 210<br>O         |
|     |                                         | The fig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | gures in the i                                            | right hand marg                                                                    | gin indicate mark<br>art- l                                        | (S.                   |                  |
| 210 | Q1 S<br><sup>210</sup> a<br>b<br>c<br>d | <ul> <li>Mention name</li> <li>Explain how presented and the second sec</li></ul> | cations are ba<br>s of commerc<br>rivacy can be           | Answer All-10)<br>ased on 210<br>ially available Ic<br>a matter of cond            | protoco                                                            |                       | <b>))</b><br>210 |
| 210 | e<br>fj<br>210 g                        | <ul> <li>Which standar</li> <li>platforms?</li> <li>MQTT is a</li> <li>Which commu</li> <li>What is the rol</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ds allow inter<br>nication proto                          | operability of po<br>oriented  <br>cols are used fo<br>DNF server?                 | r M2M local area                                                   | networks?             | 210              |
|     | i)<br>j)                                | What is Netwo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ork Manageme                                              | ent Protocol?<br>Part- II                                                          | se in NETCONF-                                                     |                       |                  |
|     | Q2 T                                    | ocused-Short Ans<br>welve)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |                                                                                    |                                                                    | it of (06x08          | 5)               |
| 210 | a<br><sup>210</sup> b                   | · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | xample <sub>2</sub> of IO                                 | · •                                                                                | self-configuring?<br>ses WebSocket-ba                              | ased 210              | 210              |
|     | c<br>d                                  | What is the di                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           | constraints of RE<br>een sensors an                                                | EST?<br>d actuators? Expla                                         | ain with an           |                  |
|     | е                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | unication prote                                           | ocols are used f                                                                   | or M2M local area                                                  | networks?             |                  |
| 210 | 210<br>g                                | . Differentiate h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | etween <sup>2</sup> conv                                  |                                                                                    | a Raspberry Pi?<br>architecture and                                | SDN 210               | 210              |
|     | h<br>i)<br>i)                           | Why Python is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | s preferred as                                            | cocol? How it is r<br>a language for<br>reen web of thin                           |                                                                    | things?               |                  |
| 210 | j)<br>210<br> )                         | ) How gateway<br>architecture o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | devices and<br>f IOT system<br>fference betw              | mobile node dev                                                                    | vices feature in the<br>210<br>n M2M and things                    | e autonomy            | 210              |
|     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |                                                                                    |                                                                    |                       |                  |

| 210 | 210<br>Q3        | Long Ansv<br>What is the fun<br>system? What<br>Explain with dia | 0T <b>(16)</b>                      | 210                |                                                                              |       |     |
|-----|------------------|------------------------------------------------------------------|-------------------------------------|--------------------|------------------------------------------------------------------------------|-------|-----|
| 210 | <b>Q4</b><br>210 | Give an accour<br>clustering princ                               | How (16)                            | 210                |                                                                              |       |     |
|     | Q5               | Explain about p<br>issues with IOT                               | her <b>(16)</b>                     |                    |                                                                              |       |     |
| 210 | <b>Q6</b><br>210 | conditioning IO                                                  | T system. Imple<br>wement of object | ement the function | nart home lightin<br>on in the controll<br>ture sensor and<br><sup>210</sup> | er to | 210 |
| 210 | 210              | 210                                                              | 210                                 | 210                | 210                                                                          | 210   | 210 |
| 210 | 210              | 210                                                              | 210                                 | 210                | 210                                                                          | 210   | 210 |
| 210 | 210              | 210                                                              | 210                                 | 210                | 210                                                                          | 210   | 210 |
| 210 | 210              | 210                                                              | 210                                 | 210                | 210                                                                          | 210   | 210 |
| 210 | 210              | 210                                                              | 210                                 | 210                | 210                                                                          | 210   | 210 |