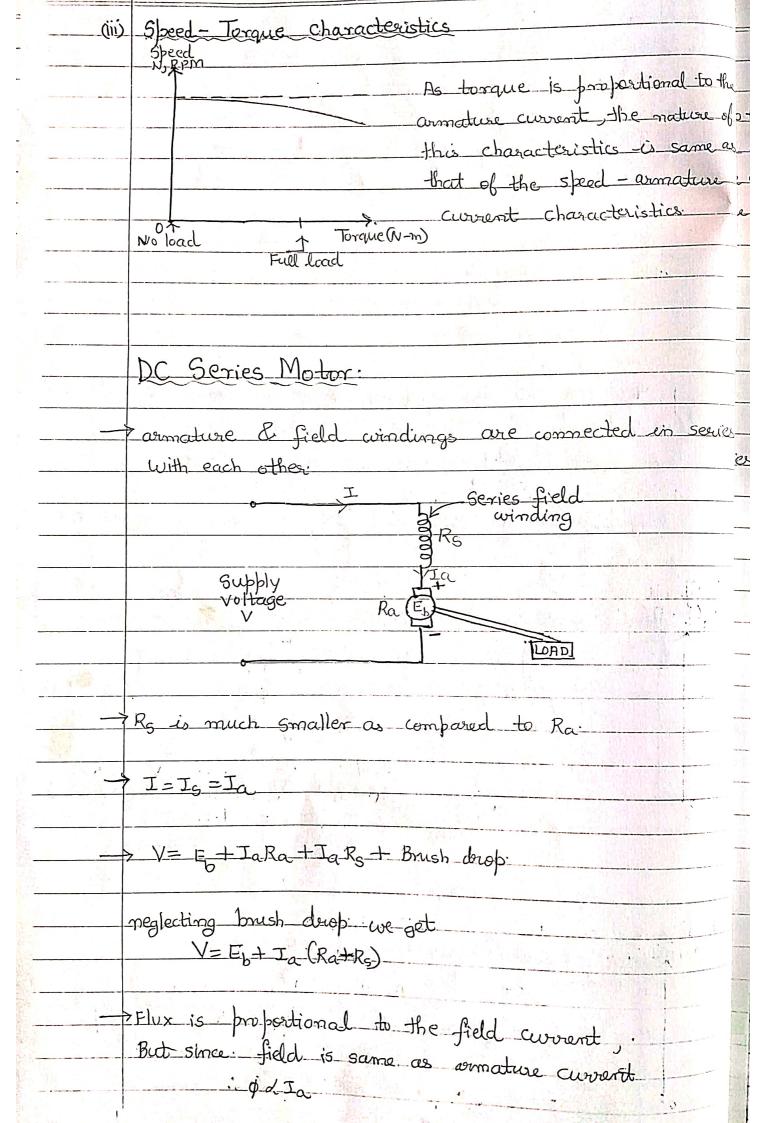
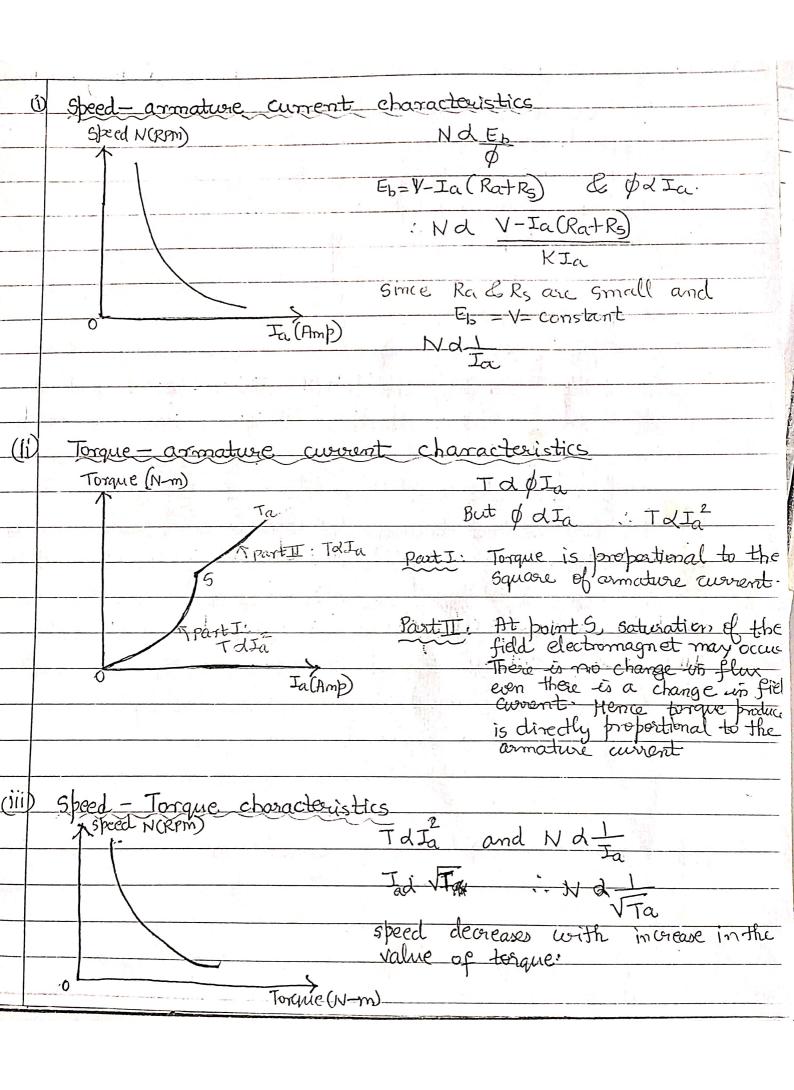


| | | ・ 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日 |
|-------------|---------------------------------------|--|
| | | winding is smaller than that of the rive used for the asmatice |
| | | winding: |
| | , | |
| | - | $\frac{1}{2}I_{\alpha}I_{\alpha}+I_{sh}$ |
| | | |
| | | $-J_{sh} = \frac{V}{R_{sh}}$ |
| 1 | | A STATE OF THE PARTY OF THE PAR |
| | | > V= F L T D I V |
| 7 | Land Market | meglecting the deep across brushes |
| | | |
| - 1 | | V=Eb+IaRa: |
| - 17 | | A solution of the second secon |
| _ | | > Field convert Ish remains esentially constant. Hence flux |
| | | produced also remains constant |
| - 0.0 | | i. \$ 2 Ish |
| | | |
| | | Shurt motor is also called as constant flux motors. |
| | | |
| | | |
| B | Ü | Speed armature current characteristics. |
| | 7 | (speed) $E_{b} = \frac{P\phi_{NZ}}{P}$ |
| -1 | | 60 A |
| - 1 | | No Constant spead : N = 60 A Eb = K Eb (K=cinst) |
| | | $P\phi_{\overline{z}}$ |
| | 1 | Nd Ep d V-JaRa |
| - 1 | | as \$ is const N & (V-IaRa) |
| | * * * * * * * * * * * * * * * * * * * | with margaret on load, In increases |
| | | Ia(A) and speed N decreases |
| The same of | | |
| Ī | | |
| 100 | | —————————————————————————————————————— |
| | _(ii) - | Torque (N-m) Torque (N-m) |
| | | Ta Iai |
| | | Ta. As the motor increases, Ia increases |
| . 4 | | proportionally of the torque produced |
| 18: | | by the motor also increases linearly. |
| 14 | | |
| .~ | | 五(A) |





| . 0 | |
|--------------|--|
| | DC Motor Applications: |
| | |
| _ | Shunt Motor 7/1 constant speed motor having its standing torque 30% (40 % more than its rated torque: |
| | |
| | Buch a motor can be used for. |
| | machine tools such as lathe machines decilling machines |
| a is | milling machines |
| | printing machinery |
| (j.) | paper machines: |
| | centrifugal & reciprocating pumps. |
| (<u>V</u>) | blowers & fans |
| | |
| d) | Scala Malac |
| | Series Motor. > develops a very high starting torque and it hous |
| | 1 1 11- in the stand Thoughton it too any load |
| | which needs high stooding torque; series motor is the only suitable drive |
| | which needs high drive |
| | the only suitable over |
| (1) | 1 and 1 leave (ii) placed electric languative |
| 11. | used for electric trains (ii) Obresel-electric licomotives (iv) horses |
| | Canes (1) rabid de la colonia |
| <u>(r)</u> | trolley cars as morray bases with implications to Systems. |
| <u>Viì</u> | trolley cars & trolley buses (i) rapid transit systems. Conveyers etc. |
| 1 | |