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BRANCH: CSE.

SEC : I.

ROLLNO : LOJRIAOSOS

SUBJECT : CBEEE.

NO OF PAGES WRITTEN : 7



1) Draw and explain full wave rectifier?

This rectifier circuit consists of the voltage source, two diodes and a resistive load connected as shown in fig

During ive half cycle.

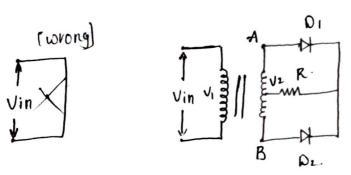
During -ve half cycle.

D. -> Forward bias (closed switch) D. -> Reveuse bias (open switch)

D2 -> Reverse bias [open switch] D2 -> forward bias [closed switch]

Figure:





Define slip, synchronous speed of Induction motols SKIP: The difference between the synchronous speed 'N3' of the rotating stator field and the octual rotar speed 'Nr' is called 'slip'

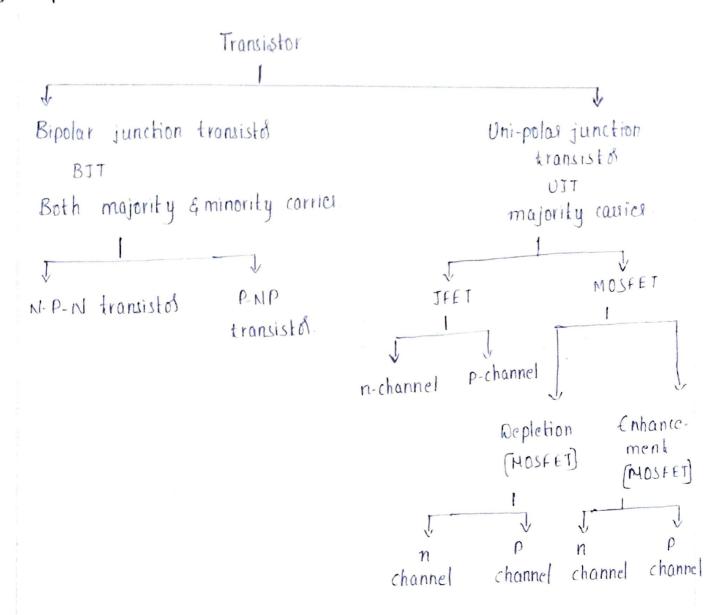
1/ of slip = Ns-Nr + 100

The synchronous speed is the opeed of the revolution of the magnetic & field in the states winding of the motor. It is the speed at which the electromotive force is produced by the alternating machine The synchronous speed is given by the aelation

shown below.

NS = 1201/p

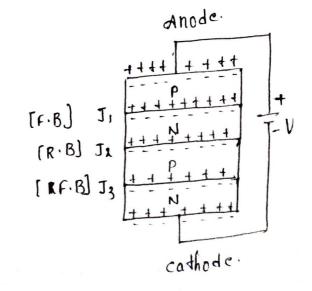
3 Explain classification of transistor?



H) Explain operating regions of scr?

scr operates mainly in these modes:

- i) forward Blocking mode.
- 2) forward conducting mode.
- 3) Reverse Blocking mode.
- * forward Blocking Mode:

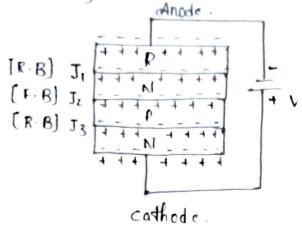


(1)

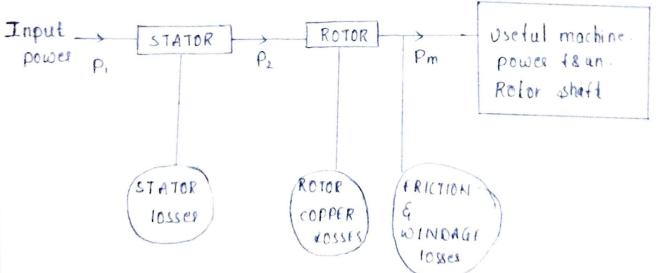
When the anode to cathode forward voltage is I with the angle gate circuit open available avalanche breakdown occurs in junction 12 and the large amount of currents stands flowing through the device.

* Reverse blocking mode:

5



Explain the power flow stages in I.H and give the relation between Px: Pc: Pm?



Pr-Pr-statorlosses Pr-Pr-rotorcoppes Pm-Pr-Friction & windage.
1058es Kosses.