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Derive the i_d - V_{ds} relationship for NMOS working in saturation region.

Attempt any four parts of the following:-

5×4=20)

Contd...

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3 3 is the gain at 0.1 f_{AB} and at $10f_{AB}$. a unity gain frequency of 106Hz. What is the 3-dB frequency f3dB of the closed loop amplifier? What An inverting amplifier with nominal gain of -20V/V employs an op-amp having a dc gain of 104 and

 \equiv For an op-amp having a slew rate of Describe the terms Unity- gain Bandwidth and Full-power Bandwidth

be produced at the output. which a 20-V peak to peak sine wave can 60 V/μs, what is the highest frequency at

Find the dc quantities ID and VD

Calculate the value of gm at the bias point

Calculate the value of voltage gain

If the MOSFET has $\lambda = 0.001V^{-1}$, find r_o at the bias point and calculate the voltage gain

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