

- 3 (a) State and explain Miller's Theorem.

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- (b) A common source amplifier is shown in Fig. 3. Calculate the voltage gain.

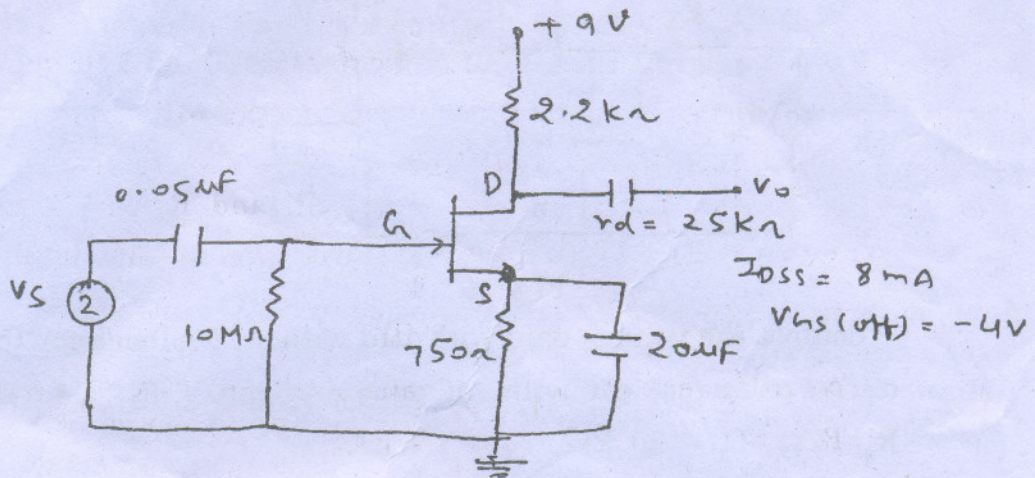


Fig. 3

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UNIT - IV

- 4 (a) Draw the circuit of two stage amplifier employing current shunt feedback and obtain the expression of its gain with feedback.

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- (b) An amplifier has a voltage gain of 40. The amplifier is now modified to provide a 10% negative feedback in series with input. Calculate :

- (i) Voltage gain with feedback.
- (ii) Amount of feedback in db.
- (iii) Loop gain.

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OR

- 4 (a) Write down the various advantages of negative feedback amplifier in reference with amplifier without feedback.

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