

Max. Marks:80

Duration: 3hrs

NB:

- (1) Question No.1 is compulsory.
- (2) Answer any **three** from remaining questions.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if required.

Q.1

Attempt any four

- a Give the equation for the current in semiconductor diode. With the help of this equation explain in detail the V-I characteristics of a semiconductor diode. 5
- b Explain effect of temperature on JFET and derive equation for zero temperature drift. 5
- c For the circuit shown in fig 1 determine small signal hybrid pi parameters of transistor. 5



Fig.1

- d Design clipper circuit for the output shown in figure.2 Assume diode is ideal.



Fig.2

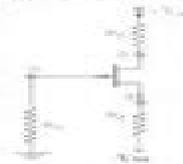


Fig.3

- e For the FET shown in figure.3 the drain current equation is  $I_{DQ} = 9 \left( 1 + \frac{V_{GSQ}}{5} \right)^2$  mA. Determine  $I_{DQ}$ ,  $V_{GSQ}$ ,  $V_{DSQ}$ ,  $V_D$ ,  $V_{DS} = 18V$ ,  $R_D = 2.2k\Omega$ ,  $R_S = 1.2k\Omega$ ,  $-V_{GS} = -9V$  and  $R_G = 1M\Omega$ . 5

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**AW Chickering**



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