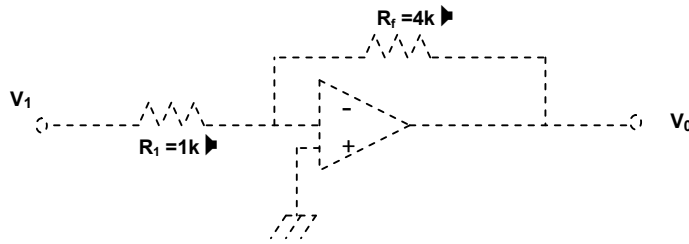


ELECTRONICS & TELECOMMUNICATION ENGINEERING

1.



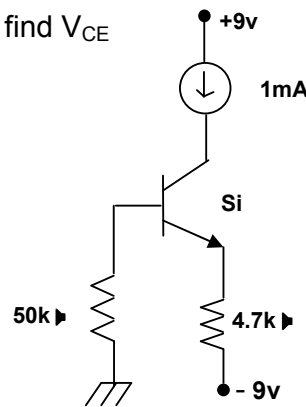
Given the bandwidth of the circuit above is 100MHz. For what value of R_f , the bandwidth will become 25MHz.

- (A) $2k\Omega$ (B) $1k\Omega$ (C) $16k\Omega$ (D) None of these

2.

For the transistor shown below, $\beta_{DC} = 50$, find V_{CE}

- (A) 3.13 V
 (B) 0.2V
 (C) 18V
 (D) None of these



3.

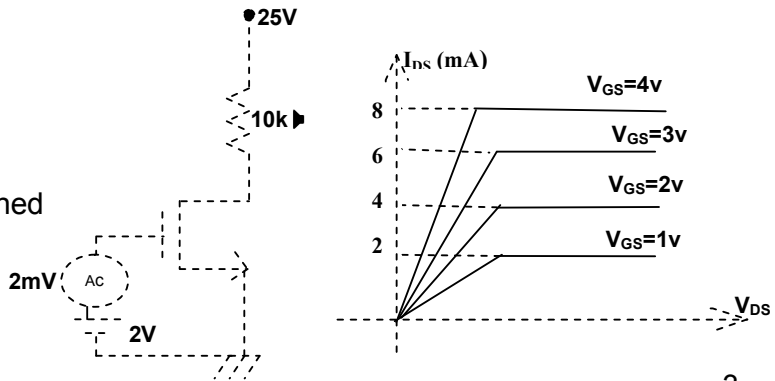
In a forward biased Ge diode, a current of 26mA is flowing, If the voltage equivalent of temperature is 0.026 v and carrier life time is 20 μ sec, what will be the value of diffusion capacitance

- (A) 10 μ F (B) 15 μ F (C) 20 μ F (D) 25 μ F

4.

What will be the voltage gain of the following circuit

- (A) -20
 (B) -10
 (C) Cannot be determined
 (D) None of these



SPACE FOR ROUGH WORK