Assignment 8

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) The difference in the output of the amplifier is the
   amplification of the difference between the voltages of the input signals.
   Difference between the output of each transistor
   Difference between the supply and the output of the each transistor
   All of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Difference between the voltages of input signals

2) The maximum and minimum output of the differential amplifier is obtained as
   V1 = VDD, Vout = 0
   V1 = VDD, Vout = VDD
   V1 = 0, Vout = -VDD
   None of the mentioned
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   V1 = VDD, Vout = VDD

3) In Common Mode Differential Amplifiers, the output Vout1 and Vout2 are related as
   Vout1 is in phase with Vout2
   Vout1 and Vout2 have same amplitude
   Vout1 and Vout2 are in phase with each other
   None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Vout1 and Vout2 are in phase with each other

4) If a three stage amplifier has individual stage gains of 10db, 20db, and 30db, then the total gain in db is ________
   50 db
   40 db
   30 db
   20 db
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   50 db

5) For extremely low frequencies, RC coupling is not used because of ________
   There is considerable power loss
   There is a hysteresis in the output
   The electrical size of the coupling capacitor
   Low efficiency
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   The electrical size of the coupling capacitor

6) The total gain of a multistage amplifier is less than the product of the gains of individual stages due to ________
   Power loss in the coupling device
   Loading effect of the next stage
   The use of noisy transistors
   The use of noisy resistors
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Loading effect of the next stage

7) A change in the value of the emitter resistance R1 in a differential amplifier
   Affects the differential mode gain
   Affects the common mode gain
   Affects both the mode gain
   Does not affect either mode gain
   Yes, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Affects both the mode gain

8) Most of the ICs are based on the two transistor differential amplifier because of its
   Input voltage dependent linear transfer characteristics
   High voltage gain
   High output resistance
   High CMRR
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   High CMRR

9) In the initial stages of a multistage amplifier, we use_______
   RC coupling
   Transformer coupling
   Direct coupling
   None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   RC coupling

10) The final stage of a multistage amplifier uses _________
    RC coupling
    Transformer coupling
    Direct coupling
    Impedance coupling
    No, the answer is incorrect.
    Score: 0
    Accepted Answers:
    Transformer coupling

Due on 2019-03-28, 23:59 IST.