

48. Why does the voltage across the discs of a string of suspension insulators with identical discs differ, even though they are connected in series?
- (A) surface leakage current (B) shunt capacitance to ground  
(C) series capacitances (D) series and shunt capacitances
49. String efficiency is an important consideration for designing transmission lines. Why is it important to have a high string efficiency?
- (A) It ensures a more uniform distribution of voltage stress across the discs  
(B) It minimizes the leakage current to ground  
(C) It reduces the overall cost of the transmission line  
(D) It increases the maximum voltage that the line can handle
50. SF6 circuit breakers are widely used in high voltage applications. What is the primary reason for this preference over other types of breakers?
- (A) SF6 gas is readily available and inexpensive  
(B) SF6 breakers are more compact, requiring less space in substations  
(C) The superior insulating and arc quenching properties  
(D) SF6 breakers require less maintenance compared to other types

51.



If the overall transfer function of system shown in the figure is  $\frac{1}{s^2 + 3s + 2}$ , then what would be the transfer function of  $G$ .

- (A)  $\frac{1}{s^2 + 2}$  (B)  $\frac{1}{s^2 + s}$   
(C)  $\frac{1}{s^2 + s + 2}$  (D)  $\frac{1}{s^2 + 3s + 2}$
52. A system has two resistors with values of 6 ohm and 10 ohm, respectively and an inductor with a value of 2 henry. A voltage source ( $V$ ), serving as the system's input, connects these components in series. Determine the transfer function of the system if the voltage across the 6 – ohm resistor is the output :
- (A)  $\frac{3}{s + 8}$  (B)  $\frac{s}{s + 8}$   
(C)  $\frac{6}{s + 8}$  (D)  $\frac{2s}{s^2 + 16}$

A

# Assistant Engineer Question Paper Mechanical Engineering

**Michael Hoelscher**



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