- 1. A signal flow graph is the graphical representation of the relationships between the variables of set linear algebraic equations.
- b) False

View Answer

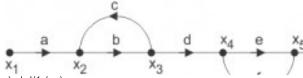
Answer: a

- 2. A node having only outgoing branches.
- a) Input node
- b) Output node
- c) Incoming node
- d) Outgoing node

View Answer

Answer: a

3. Use mason's gain formula to find the transfer function of the given signal flow graph:

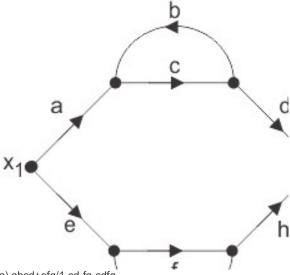


- a) abd/1-(ac)
- b) abdeg/1-(bc+ef)+bcef
- c) abd/1-(bc+ef)+bcef
- d) adcdef/1-(bc+ef)+bcef

View Answer

Answer: b

4. Use mason's gain formula to find the transfer function of the following signal flow graph:



- a) abcd+efg/1-cd-fg-cdfg
- b) acdfg+bcefg/1-cd-fg-cdfg
- c) abef+bcd/1-cd-fg-cdfg
- d) adcdefg/1-cd-fg-cdfg

View Answer

Answer: b

5. Loop which do not possess any common node are said to be ___

- a) Forward gain
- b) Touching loops
- c) Non touching loops

d) Feedback gain

View Answer

Answer: c

6. Signal flow graphs:

- a) They apply to linear systems
- b) The equation obtained may or may not be in the form of cause or effect
- c) Arrows are not important in the graph
- d) They cannot be converted back to block diagram

View Answer

Answer: a

- 7. Signal flow graphs are reliable to find transfer function than block diagram reduction technique.
- a) True
- b) False

View Answer

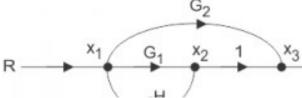
Answer: a

- 8. The relationship between an input and output variable of a signal flow graph is given by the net gain between the input and output node is known as the overall_____
- a) Overall gain of the system
- b) Stability
- c) Bandwidth
- d) Speed

View Answer

Answer: a

9. Use mason's gain formula to calculate the transfer function of given figure:

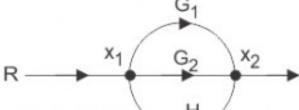


- a) G1/1+G2H
- b) G1+G2/1+G1H
- c) G2/1+G1H
- d) None of the mentioned

View Answer

Answer: b

10. Use mason's gain formula to find the transfer function of the given figure:



- a) G1+G2
- b) G1+G1/1-G1H+G2H
- c) G1+G2/1+G1H+G2H
- d) G1-G2

View Answer

Answer: c