

17. Shot noise is generated in:
- a. transistors and diodes
  - b. resistors
  - c. copper wire
  - d. none of the above

ANS: A

18. The power density of "flicker" noise is:
- a. the same at all frequencies
  - b. greater at high frequencies
  - c. greater at low frequencies
  - d. the same as "white" noise

ANS: C

19. So called "1/f" noise is also called:
- a. random noise
  - b. pink noise
  - c. white noise
  - d. partition noise

ANS: B

20. "Pink" noise has:
- a. equal power per Hertz
  - b. equal power per octave
  - c. constant power
  - d. none of the above

ANS: B

21. When two noise voltages,  $V_1$  and  $V_2$ , are combined, the total voltage  $V_T$  is:
- a.  $V_T = \sqrt{V_1^2 + V_2^2}$
  - b.  $V_T = (V_1 + V_2)/2$
  - c.  $V_T = \sqrt{V_1 \times V_2}$
  - d.  $V_T = V_1 + V_2$

ANS: A

22. Signal-to-Noise ratio is calculated as:
- a. signal voltage divided by noise voltage
  - b. signal power divided by noise power
  - c. first add the signal power to the noise power, then divide by noise power
  - d. none of the above

ANS: B

23. SINAD is calculated as:
- a. signal voltage divided by noise voltage
  - b. signal power divided by noise power
  - c. first add the signal power to the noise power, then divide by noise power
  - d. none of the above

ANS: D

24. Noise Figure is a measure of:
- a. how much noise is in a communications system
  - b. how much noise is in the channel
  - c. how much noise an amplifier adds to a signal
  - d. signal-to-noise ratio in dB

ANS: C

# Electronic Communication Systems Blake Solution Manual

**Y Pai**



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