(Q1) “Nyquist sampling rate is the theoretical minimum sampling rate such that a signal (with band-limited) can be recovered from its sample.”

Given a baseband audio signal with bandwidth 15,000 Hz, determine the Nyquist sampling rate of this signal.

A. 15,000 Hz
B. 30,000 Hz
C. 45,000 Hz
D. 60,000 Hz

(Q2) The statement, “Pulse-code modulation (PCM) is a method of converting an analog signal into a digital signal”, is

A. True
B. False

Answer: (Q1) B, (Q2) A.