1. A class B power amplifier with power efficiency of 73% is modified to class AB power amplifier in order to solve the crossover distortion, what is the expected efficiency for this AB power amplifier?

   A. 75%
   B. 90%
   C. 73%
   D. 60%

2. Synchronous detector requires

   A. the power matching between transmitter and receiver
   B. frequency and phase synchronization between transmitter and receiver
   C. ideal filtering
   D. Anti-aliasing

3. The ideal bandwidth for FM signal is
   A. 2*bandwidh of the baseband signal.
   B. 2*amplitude of the baseband signal.
   C. infinite.
   D. Nyquist Rate