

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**King Fahd University of Petroleum and Minerals  
Department of Electrical Engineering**

**Semester I 2005/2006**

**EE303 Electronics II**

**Quiz (2)**

**ATTEMPT ALL QUESTIONS  
TIME ALLOWED 10 Minutes**

Write the specifications of an operational amplifier to be used for amplifying an input signal of amplitude = 50 mV, frequency in the range of 100 Hz -10 kHz. The output voltage is expected to be 10 V. You are expected to specify the gain-bandwidth product, the slew rate and the offset voltage of the required amplifier.

**JUSTIFY YOUR ANSWER.**

**AN ANSWER WITHOUT JUSTIFICATION CAN NOT CARRY ANY CREDIT.**