بسم الله الرحمن الرحيم

King Fahd University of Petroleum and Minerals Department of Electrical Engineering

Semester	I	2006/2007	
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Major (1)

EE303 Electronics II ATTEMPT ALL QUESTIONS TIME ALLOWED 50 MINUTES

Your are working on the design of an instrumentation system. The system comprises a sensor whose output voltage is around 10 mV and its output frequency ranges from 20Hz to 20 kHz. The internal resistance of the sensor is 1 kOhm and the output of your system is required to be about 1 V and to feed a load that can represented by a resistance = 10 kOhm. Obviously you need an amplifier. Available in the market are the two amplifier shown in Figure.

You are requested to select the most appropriate amplifier for your system.

