

**1) Referring to the datasheet provided (File Name: "Sensor Datasheet"), answer the following questions:**

- a) What type of sensor is this? (1 pt)
- b) Describe in simple words the working principle of the given type of sensor. (2 pts)
- c) Which model specified in the datasheet would you choose if you want to measure 900 kPa? (1 pt)
- d) Can this sensor be operated at 160°C? (1 pt)
- e) What are the manufacturer recommendations if you want to solder the sensor onto the PCB? (2 pts)
- f) In the application circuit shown in the datasheet, what are the op-amp configurations used? (2 pts)
- g) What is the maximum pressure load in the model KPF201G03? (1 pt)