**Drones measurements pre-post test to print.doc**

**1. What is PM (particulate matter)?**

1. Particulate matter is a mixture of liquid and solid particles suspended in the air.
2. Particulate matter is a mixture of CO2 gas and O2 gas in the air.
3. Particulate matter is a mixture of liquid and solid particles suspended in the water.

**2. How the PM (particulate matter) are classified?**

1. The particulates are not one particular chemical substance but a classification of particles by size rather than chemical properties.
2. The classification is made by a chemical substance inside, i.e. NO2, CO2 particulars.
3. Particulate matter are not classified, there is only one definition that stands for air mixture.

**3. How air quality measurement can be carried out?**

1. The measurements can be carried out either by mobile sensor attached to ground vehicle (bicycle, car, scooter) or aerial vehicle (drone) or stationary.
2. The measurements cannot be carried out by mobile sensor, only stationary laboratories.
3. There is no possibility to measure air quality.

**4. How the measurement position is logged in the mobile system?**

1. By a build in GPS.
2. Cannot be logged.
3. Operator inputs position parameters via USB cable.

**5. What flight plan is used for the air pollution source seeking?**

1. Circle plan
2. Single grid
3. Triangle
4. Free flight

**6. What flight plan is used for the single air pollution source investigation?**

1. Circle plan
2. Double grid plan
3. Single grid plan
4. Vertical plan

**7. Is the PM cloud stationary or it is moved in the atmosphere?**

1. PM cloud is stationary and always lays in the vicinity of chimney.
2. PM cloud is very heavy and stays at very low level above the ground.
3. PM cloud is moved by a wind, and formed by a different atmospheric conditions.

**8. Why PMs are danger for health?**

1. PMs are not danger for our health.
2. Cause toxic effects by absorption of the toxic material into the blood (e.g. lead, cadmium, zinc).
3. Can cause only allergy and flue.

**9. How PMs entering the body?**

1. By blood contact with PMs in the air.
2. May be drawn into the body with every breath.
3. PM do not enter the body, they stay only on the skin.

**10. Can animals be affected by PMs?**

1. No, animals are safe.
2. Animals cannot be affected, because they have special layer in their body.
3. PM10 may affect animals in the same way as it affects humans.