**Drones measurements pre-post test key.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.**