

For ESE5001 AQ1

Quick assessment of understandings related to airborne particulates:

Q1: Which of the following causes most adverse health impacts upon inhalation exposure?

- (1) Ultra-fine particles
- (2) Dusts
- (3) Accumulation particles**
- (4) Nuclei

Q2: Which aerodynamic property determines AED of aerosols?

- (1) Effective density
- (2) Settling velocity**
- (3) Residence time in air
- (4) Light scattering

Q3: Which type of aerosols has the longest residence time in air?

- (1) Cloud condensation nuclei
- (2) 80-nm aerosols
- (3) 550-nm aerosols**
- (4) Sea salts

Q4: Which property causes smaller particles poorly controlled/regulated by current PM2.5 standard?

- (1) Number concentration
- (2) Light scattering
- (3) Effective volume**
- (4) Airborne duration