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## 國立成功大學九十五學年度碩士班招生考試試題

編號: 7 469 系所:環境醫學研究所甲組

科目:工業衛生

本試題是否可以使用計算機: ☑ 可使用 , □不可使用 (請命題老師勾選)

1. What are aliphalic hydrocarbons? What are their main health effects while being used as an organic solvent? (12%)

- 2. What is asbestos? An asbestos is know with 3  $\mu$  m in length and 2  $\mu$  m in diameter, Will it be harmful to human health? Why? (12%)
- 3. Please define nano-particles. What are the intrinsic properties of nano-particles that will affect their health effects to human beings? (12%)
- 4. Please describe occupational damage-risk criteria used for evaluating noise induced hearing losses. (12%)
- 5. The vapor pressure of mercury at 25 °C is 0.0018 mmHg. The atomic weight of mercury is 200.6 g/mole. If the mercury vapor were allowed to reach equilibrium at this temperature in an enclosed space, what would be the mercury vapor concentrations in the space (in mg/m³). (12%)
- 6. A tank (L x W= 2m x 1m) is known for a degreasing purpose, please design a canopy hood to control the release of trichloroethylene vapor from the tank. Please make any assumptions you want for an effective design. (12%)
- 7. Please define following terminologies(28%)
  - (1) Heat stress
  - (2) The vapor/hazard ratio number
  - (3) Extra-thoracic aerosols
  - (4) Octave band
  - (5) Static sampling
  - (6) Dew point
  - (7) Loudness