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國立臺北科技大學112學年度碩士班招生考試

系所組別:3210 環境工程與管理研究所甲組

第一節 環境工程 試題

第1頁 共1頁

注意事項:

- 1. 本試題共 5 題, 每題 20 分, 共 100 分。
- 2. 不必抄題,作答時請將試題題號及答案依照順序寫在答案卷上。
- 3. 全部答案均須在答案卷之答案欄內作答,否則不予計分。
- 1. Please explain the following terms for their meanings and application (1) Crown corrosion (2) Flue gas desulfurization (3) Anoxic decomposition (4) Velocity gradient (20 points, 5 points each)
- 2. AlPO₄ is insoluble with a solubility constant of 10⁻²². How many mg/L of PO₄³⁻ would be in solution at equilibrium with AlPO₄? (Al=27, P=31, O=16) (20 points)
- 3. What are perfluoroalkyl and polyfluoroalkyl substances (PFAS) (10 points)? Where are they from(5 points)? What are their environmental impacts(5 points)? (20 points total)
- 4. Please describe the technologies for stationary source NOx control. (20 points)
- 5. Please describe the theory of "breakpoint chlorination" and calculate the how many gram of chlorine is required to oxidize 1 gram of ammonia to nitrogen gas. (20 points)

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