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國立臺灣大學 107 學年度碩士班招生考試試題

科目： 環境生態學(B)

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1. What is "low-impact development (LID)"? What are the common practices for LID? (25 分)
2. Please list a few examples of herbivores and predators in freshwater and their correlation in freshwater ecosystem. (25 分)
3. A group of scientists from Imperial College London proposed a systems approach to sustainable, resilient and cost-efficient urban development using "Blue Green Solutions". Please address the following questions: First, please explain the challenges we are facing due to increased urbanization. Second, what do you think the "Blue" and "Green" mean in the proposal from Imperial College London? Third, please explain why "Blue" and "Green" are solutions to the challenges of urban environment. Last, please explain how to integrate the "Blue" and "Green" to solve the challenges of urban environment. (25 分)
4. Please explain what urban agriculture is. Please also explain what an aquaponic system is. (15 分)
5. Scientists use the niches of species to classify them as generalists and specialists. Please plot a figure (number of individuals v.s. resource use) to explain "generalist species" and "specialist species". (10 分)

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