

IDAT7219 Smart Building Technology

Format of written examination (sample questions)

1. (a) Briefly describe the five senses of a smart/intelligent building. Discuss the evolution of smart building and explain the meaning of cognitive building.
(10 marks)
- (b) Draw a diagram to explain the meaning of intelligent building pyramid. Describe the basic concepts of smart home and give two examples of smart home technologies.
(10 marks)
2. (a) Compare the four types of cloud services that can be used to support the development of smart buildings. Explain the definition of digital twin and discuss its potential to enhance smart building technology.
(10 marks)
- (b) Describe the typical components of building automation system (BAS). Discuss the advantages of using wireless networks for BAS.
(10 marks)