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School of Engineering
B.TECH Civil Engineering in Smart Cities
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - G1UB401T - Demography for Smart City

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Outline how Information and Communication Technology contribute to Smart City development? K2 (2)
- 2) Define the key component of a Smart City based on green buildings. K1 (3)
- 3) Explain the concept of a Smart City and how it utilizes technology to achieve sustainable development. K2 (4)
- 4) Discuss the role of Information and Communication Technology (ICT) in the development of Smart Cities. K2 (6)
- 5) What is the concept of smart energy management in the context of smart cities? K3 (6)
- 6) Explain a smart water management plan for a densely populated urban area, considering factors such as water demand, supply sources, and infrastructure requirements. K3 (9)
- 7) Examine the role of data privacy and cybersecurity measures within a smart city framework. K4 (8)
- 8) What is green infrastructure, and how does it differ from conventional infrastructure? K4 (12)

OR

Compare and contrast the benefits of electric vehicles (EVs) with traditional gasoline-powered vehicles in the context of smart cities. K4 (12)