SNS COLLEGE OF TECHNOLOGY

Coimbatore-35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade(Cycle III)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

19ECE306-SMART IOT APPLICATIONS

Multiple Choice Questions:

1. What is the primary purpose of using IoT technology in parking?
    - a) To increase parking fees
    - b) To monitor parking space availability in real-time
    - c) To reduce parking space size
    - d) To decrease the number of parking spaces
    - **Answer: b**
2. Which city implemented the SFpark project?
    - a) New York
    - b) Los Angeles
    - c) San Francisco
    - d) Chicago
    - **Answer: c**
3. What type of sensors are commonly used in structural health monitoring?
    - a) Light sensors
    - b) Strain gauges and accelerometers
    - c) Temperature sensors
    - d) Humidity sensors
    - **Answer: b**
4. Which famous bridge uses IoT for structural health monitoring?
    - a) Golden Gate Bridge
    - b) Sydney Harbour Bridge
    - c) Brooklyn Bridge
    - d) London Bridge
    - **Answer: b**
5. What is the purpose of using noise sensors in smart cities?
    - a) To measure temperature
    - b) To monitor noise levels
    - c) To detect pollution
    - d) To control traffic
    - **Answer: b**
6. Which city uses noise monitoring to inform urban planning and policy-making?
    - a) Paris
    - b) Barcelona
    - c) Berlin
    - d) Rome
    - **Answer: b**
7. What technology is primarily used for dynamic mapping of urban areas?

- a) RFID
- b) GIS
- c) NFC
- d) Bluetooth
- **Answer: b**

8. Which city integrates various IoT data sources for urban planning through a smart city platform?
   - a) Amsterdam
   - b) Tokyo
   - c) Sydney
   - d) Toronto
   - **Answer: a**
9. What sensors in smartphones are used for urban data collection?
   - a) Camera and microphone
   - b) GPS, accelerometer, and gyroscope
   - c) Light sensor and proximity sensor
   - d) Barometer and thermometer
   - **Answer: b**
10. Which app uses smartphone data for real-time transportation information?
    - a) Google Maps
    - b) Waze
    - c) Citymapper
    - d) Apple Maps
    - **Answer: c**
11. What is the main purpose of monitoring EMF levels in urban areas?
    - a) To improve Wi-Fi coverage
    - b) To assess exposure and ensure public health safety
    - c) To enhance mobile network speed
    - d) To reduce electricity consumption
    - **Answer: b**
12. Which city monitors EMF levels around mobile phone towers?
    - a) New York City
    - b) Los Angeles
    - c) Chicago
    - d) Miami
    - **Answer: a**
13. What is one key component of an IoT-based traffic congestion management system?
    - a) Light sensors
    - b) Traffic sensors (inductive loops, cameras)
    - c) Noise sensors
    - d) Water level sensors
    - **Answer: b**
14. Which city's congestion management system uses real-time data to optimize traffic flow?
    - a) Tokyo
    - b) Paris
    - c) London
    - d) Berlin
    - **Answer: c**
15. What type of lighting is typically used in IoT-enabled smart lighting systems?

- a) Incandescent bulbs
- b) Halogen lamps
- c) LED streetlights
- d) Fluorescent tubes
- **Answer: c**

16. Which city has a smart street lighting system that significantly reduced energy consumption?
    - a) New York
    - b) Los Angeles
    - c) San Francisco
    - d) Miami
    - **Answer: b**
17. What is the primary benefit of using smart bins with fill-level sensors?
    - a) To increase waste production
    - b) To notify waste collectors when they need to be emptied
    - c) To reduce the number of waste bins
    - d) To increase the size of waste bins
    - **Answer: b**
18. Which city uses smart bins to optimize waste collection?
    - a) Oslo
    - b) Stockholm
    - c) Copenhagen
    - d) Helsinki
    - **Answer: c**
19. What is a key component of a smart road system?
    - a) Light sensors
    - b) Embedded sensors in the pavement
    - c) Noise sensors
    - d) Temperature sensors
    - **Answer: b**
20. Which motorway uses sensors to monitor road conditions and manage traffic?
    - a) M25 in the UK
    - b) A58 in the Netherlands
    - c) I-95 in the USA