

SMARTBRIDGE EXTERNSHIP – Internet of Things (IoT)

Assessment – 1

NAME: Vighnesh M

COLLEGE REG. NO.: 18BEC1223

Question:

List out 20 use cases of the Internet of Things.

Answer:

1. Smart Factories:
 - a. Increased operational efficiency.
 - b. Better control over sales lifecycle.
 - c. Energy efficiency.
 - d. More responsive smart environment.
2. Smart Cities:
 - a. Outdoor surveillance.
 - b. Smart lighting.
 - c. Smart parking.
 - d. Automated Toll collection in Highway.
3. Water Management:
 - a. Water Conservation.
 - b. Smart irrigation.
 - c. Smart Filtering (Water Quality Management).
 - d. Leakage Management.
4. Digital Health Monitoring System:
 - a. Fall detection.
 - b. Oxygen level.
 - c. Heartbeat, other physical sensors.
 - d. Remote patient monitoring.
5. Smart Retail:
 - a. NFC and Wi-Fi Payments.
 - b. Supply chain control.
 - c. Smart Product Management.
6. Smart Workspace:
 - a. Sociometric Badges.
 - b. Biometric attendance.
7. Smart Home:
 - a. Remote Control Appliances.
 - b. Smart security system.
 - i. Smoke detection.
 - ii. Fire detection.
 - iii. Energy fluctuation detection.
 - iv. Security Camera feed.

8. Home Intrusion Detection System:
 - a. Smart locks.
 - b. Motion detection.
9. Smart Logistics:
 - a. Fleet tracking (truck tracking/GPS monitoring).
 - b. Platooning (Self driving trucks).
 - c. Connected Vehicles using AI.
10. Smart Grid:
 - a. Reducing energy consumptions.
 - b. Better power flow in and out of grids.
11. Autonomous and Connected Vehicles:
 - a. Various levels of autonomy from level 5 to 4.
 - b. Level 5 autonomy cars.
12. Smart Watches and Fitness trackers:
 - a. Smart watched to track, manage and secure your fitness data.
 - b. Mini smart phone in your wrist with all the functionality needed.
13. Machine to Machine connected Device:
 - a. IoT enabled machines to work smarter.
 - b. Mapping machine workloads, inputs and outputs.
 - c. Energy efficiency.
14. Drones for Industrial and Search & Rescue Operations:
 - a. To monitor deforestation.
 - b. To deliver goods to the buyer.
15. Gesture Controlled Robots:
 - a. Useful for old age and physically challenged people.
16. Companion Robots:
 - a. Cleaning robots.
17. AR/VR:
 - a. Extended Reality Experience.
 - b. VR places user in a digital world.
18. Smart Metering:
 - a. Measure's energy, water, electricity, natural gas consumption of a building or home.
 - b. Reduce energy theft.
19. Asset Tracking:
 - a. easily locate and monitor key assets.
 - b. To detect theft. Optimize logistics, maintain inventory levels.
20. IoT Based Pest Control:
 - a. Keeps track of pest population.
 - b. Connected traps, cages, etc.
21. Redefining Field Intel's for Oil and Gas Industries.
22. IoT Use Case in IT/Operational Technology:
 - a. Scalable IoT Operations Management.
 - b. IoT Data Integration.
 - c. Automated Analytics and Actions.