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223844

4th Sem./ Artificial Intelligence & Machine Learning
Subject : Internet of Things

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory
(6x1=6)

- Q.1 Term "Internet of Things" coined by.
a) Kevin Aston b) John Wright
c) Edward Jameson d) George Garton
- Q.2 Which of the following is not an IoT device?
a) Table b) Laptop
c) Arduino d) Tablet
- Q.3 Which of the following is the way in which an IoT device is associated with data?
a) Internet b) Cloud
c) Automata d) Network

- Q.4 An IoT network is a collection of _____ devices.
- a) Signal b) Machine to Machine
c) Interconnected d) Network to Network
- Q.5 Which of the following devices is used to measure the gases or liquid?
- a) Optical sensor b) Gas Sensor
c) Smoke Sensor d) Pressure sensor
- Q.6 Which of the following layers provides end-to-end communication in IoT?
- a) Logical layer b) Data link layer
c) Transport layer d) Session layer

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 What is the full form of MQTT.
- Q.8 Full form of SBC is?
- Q.9 ITS stands for _____.
- Q.10 RFID stands for.
- Q.11 Arduino IDE is written in _____ programming language.
- Q.12 LTE stands for.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 What are the characteristics of IoT.
- Q.14 What is servo motor interfacing.
- Q.15 What is the Arduino Uno architecture.
- Q.16 What are the advantages of IoT.
- Q.17 What are the role of functional blocks in IoT?
- Q.18 What are security challenges of IoT?
- Q.19 Explain the development challenges of IoT?
- Q.20 Write the industrial applications of IoT.
- Q.21 Write the different IoT tools.
- Q.22 Explain the embedded platform system of IoT.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

- Q.23 What are different types of sensors in IoT? Explain in details.
- Q.24 Define term IoT. What are the advantages and disadvantages of IoT?
- Q.25 Explain the different IoT tools. What are the challenges to use of them.