

- a) HTML2
c) HTML4
- b) HTML3
d) HTML5
- (ix) Discover the primary focus of the Smart Composables Internet of Things concept.
- a) Industrial automation
c) Knowledge support for object composition
- b) Recycling of physical objects
d) Augmentation of virtual reality
- (x) Determine the connection between telemetry and Internet of Things (IoT).
- a) It is an outdated technology replaced by IoT.
c) It is a subset of IoT used only in military applications.
- b) It is a precursor and integral part of IoT.
d) It is unrelated to IoT as it predates modern digital technologies.
- (xi) Choose the correct answer: The main strength of Composables in the Smart Composables Internet of Things is depended on.
- a) Providing context-aware querying capabilities
c) Encouraging creativity in composing and decomposing objects
- b) Enabling bidirectional data exchange between objects
d) Facilitating domain-specific smart object creation
- (xii) Compare and contrast simple linear regression and polynomial regression in terms of their ability to model complex relationships in data.
- a) Simple linear regression is more flexible than polynomial regression.
c) Both simple linear regression and polynomial regression are equally effective in modeling complex relationships.
- b) Polynomial regression can capture non-linear relationships better than simple linear regression.
d) Polynomial regression is less prone to overfitting compared to simple linear regression.
- (xiii) What is a sparse model in the context of IoT data analytics?
- a) A model that uses a small amount of data
c) Because they can handle large volumes of data efficiently
- b) A model that employs complex algorithms
d) Because they are easier to interpret and understand
- (xiv) How can sparse models be applied in IoT sensor data analysis? Discover it.
- a) By incorporating all available sensor data into the model
c) By ignoring sensor data altogether
- b) By selecting only the most relevant sensor data for analysis
d) By using pre-trained models without modification
- (xv) Why is it important to assess the quality of clusters in clustering analysis? Select the correct answer.
- a) To determine the computational resources required for clustering
c) To evaluate the effectiveness and reliability of the clustering results
- b) To identify the most suitable clustering algorithm for a specific dataset
d) To establish the optimal number of clusters for a given dataset

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe some applications of Open Interconnect Consortium(OIC). (3)
3. List out the significance of Internet of Things(IoT). (3)
4. Illustrate the importance of governance in managing IoT ecosystems. (3)
5. Appraise the significance of unified data standards in IoT ecosystems. (3)
6. Compare and contrast the assumptions underlying simple linear regression and multiple regression, highlighting how violations of these assumptions can affect the reliability of the regression results. (3)

OR

- Analyze the differences between unsupervised and supervised learning approaches. (3)

Group-C
(Long Answer Type Questions)

5 x 6=30

7. Review the potential societal implications of IoT in healthcare applications. (5)
8. Explain the concept of ubiquitous computing and its relationship with the Internet of Things. (5)
9. Interpret the advantages of Zigbee's mesh network architecture in IoT applications. (5)
10. Explain the concept of brownfield use cases in the context of IoT technology and how they contribute to the evolution of Industry 4.0. (5)
11. Identify the types of problems in IoT data analytics where Random Forest is commonly applied. (5)
12. List out various functions and technologies involved in business intelligence (BI) and decision support systems (DSS), highlighting their significance in IoT applications. (5)

OR

Illustrate the role of the IoT bus in integrating data from IoT adaptors, and discuss its significance in achieving seamless communication within the WoT architecture. (5)
