(FOR THE CANDIDATES ADMITTED

22UAI517

DURING THE ACADEMIC YEAR 2022 ONLY)   REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS: NOV 2024

B.Sc.CS WITH AI &ML   **MAXIMUM MARKS: 50**

SEMESTER-V   **TIME : 3 HOURS**

PART-III
22UAI517 - IOT

SECTION – A   **(10 X 1 = 10 MARK)**

ANSWER THE FOLLOWING QUESTIONS.   **(K1)**

1. Which of the following cannot be considered as an IoT device?_____

   a) Smart watch   b) Laptop   c) Android Phone   d) Tube light

2. Whixh of the following protocol is used to link all the devices in the IoT?_____

   a) UDP   b) HTTP   c) Network   d) TCP/IP

3. _____ services are provided over the internet to the general people or major industry groups.

   a) Hybrid cloud   b) Community cloud c) Public cloud   d) Private cloud

4. Identify the layer which comprises of databases that store the information passed on by the lower layers

   a) Network layer   b) Middleware layer c) Application layer   d) Business layer

5. Which technology provide historical, current, and predictive views of business operations?_____

   a) Business Intelligence b) Data Warehouse   c) Data Mining   d) Data Analytics

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. Define IoT Gateway.

7. What is the role of cloud computing in IoT?

8. Define the term IoTivity

9. How is Web of Things used as part of WWW?

10. Write any two public web portals.

SECTION – B   **(5 X 3 = 15 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11.   a) How is IoT used in Industries?
                   (OR)
        b) Write a note on Business drivers.

12.   a) Portray M2M and WSN protocols**.**
                   (OR)
        b) How is security is used in IoT devices?Explain.   (CONT…2)

Ethical Paper

13.   a) Specify the applications and importance of OIC

(OR)

b) Enlist the characteristics of Open source IoT architecture

14.   a) Differentiate between Web of Things Vs Internet of Things

(OR)

b) Give short notes on WoT and Business Intelligence.

15.   a) Write the advantages and disadvantages of Brownfield IoT

(OR)

b) Explain Smart objects

SECTION – C   (5 X 5 = 25 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16.   a) Explain the elements of IoT Ecosystem in detail.
(OR)
b)Discuss on Governance, Privacy and Security Issues in IoT.

17.   a) Elaborate SCADA and RFID protocols.
(OR)
b) Explain Architecture of APS Layer with a neat diagram

18.   a) Specify the types of IoT devices and Deployment Model and Explain it
(OR)
b) Elucidate the Architecture of IoTivity Stack

19.   a) Discuss the Two Pillars of the Web.
(OR)
b) Sketch the Unified Multitier WOT Architecture and Explain in detail

20.   a) Explain the Concepts of Future Factory in IoT Applications for Industry.

(OR)

b) Describe IoT Platforms /Middleware.

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Ethical paper