

Roll.No.

24UCAET5B01

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai - 600 044.

B.C.A. - END SEMESTER EXAMINATIONS - NOVEMBER 2025  
SEMESTER - V

**24UCAET5B01 - Internet of Things**

Total Duration : 1 Hrs.30 Mins.

Total Marks : 40

### **Section B**

Answer any **TEN** questions (10 × 2 = 20 Marks)

1. Define the Internet of Things (IoT).
2. What is a telephony network?
3. Write any two differences between telephony and broadcast networks.
4. List the types of stranding in wiring.
5. What is Shannon information theory?
6. Describe TCP/IP Protocol.
7. List any two features of wireless networks.
8. What are AWS Core Services?
9. Define control plane and data plane.
10. What is head-of-line blocking in routers?
11. Mention any two future applications of IoT.
12. Define virtual machine.

### **Section C**

Answer any **FOUR** questions (4 × 5 = 20 Marks)

13. Distinguish between switched networks and packet-switched networks.
14. Explain the IOT Home Automation.
15. Explain MQTT Protocol.
16. Discuss the progression of telephony infrastructure and its impact on the rise of the Internet of Things.
17. Explain the architecture of routers and switching fabrics used in broadband access networks.
18. Illustrate Time-Domain Reflectometry(TDR).

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