**Advanced Technological Institute – Labuduwa**

HNDIT

1st Year II Semester - 2025

**Assignment – DCCN**

Dead line: 30-06-2025

1. Explain briefly following ubiquitous computing Technologies.
2. QR Code
3. GPS
4. RFID
5. Briefly describe different types of Malwares. Spam & cookies)
6. What is the difference between wireless access point & WI-FI router
7. Briefly discuss the different between webmail and email.

5. What is ISDN? Explain advantages and disadvantages

6. Is dial-up internet secure? If you used a dial up connection, would it have any benefits on

privacy compared to cable internet and DSL?

7. How ISDN speed like was compared to broadband and analog dial-up internet?

8. Explain features of SAN and NAS.

9 Given

Host Ip Address 128.107.0.55

Original Subnet Mask 255.255.0.0

New Subnet Mask 255.255.255.0

1. Number of Subnet Bits
2. Number of Subnets Created
3. Number of Host Bits per Subnet
4. Number of Hosts per subnet
5. Network address of this Subnet
6. IPv4 Address of First Host on this Subnet
7. IPv4 Address of Last Host on this Subnet
8. IPv4 Broadcast Address on this Subnet

10. Compare OSI Layers & TCP/IP model