**TAKORADI TECHNICAL UNIVERSITY, TAKORADI**

**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF INFORMATION & COMMUNICATIONS TECHNOLOGY**

**END OF SECOND SEMESTER EXAMINATION – 2017/2018**

**Course Code: CDT 103 Course Title: Hardware & Networking I**

**Time Allowed 1 Hr 45 Minutes Mark: 60**

**ANSWER ALL QUESTIONS**

1. Identify the purpose, features and functions of the following network devices: -
2. Hubs
3. Network cards
4. Switches
5. Gateways
6. Bridges
7. Repeaters
8. Routers (10 marks)
9. [Your office got the instruments for the following: Voltage, Current, Resistance](http://engineeringinterviewquestions.com/minicomputer-different-mainframe/" \t "_blank)

[Identify their uses with examples.](http://engineeringinterviewquestions.com/minicomputer-different-mainframe/" \t "_blank)

(10 marks)

3a. State Ohms law

3b. Capacitors and Inductors are used in Electrical and Electronic circuits. Explain their uses.

(10 marks)

4. Describe below the following types of storage devices:-

1. Describe primary storage media with examples.
2. Describe secondary storage media with examples.
3. Explain the various units of memory below:-

Measurement- KB, MB, GB and TB (10 marks)

5. Differentiate between the types of networks:–

1. LAN
2. WAN
3. MAN
4. Intranet
5. Extranet. (10 marks)

6a. Explain the enumerated network architectures – peer-to-peer, client-server, file-server.

6b. Explain the stated topologies: - Star, Ring, Bus and Mesh

(10 marks)

(Total Marks: 60 marks)

**END OF PAPER**