

**Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)**

Affiliated to Saurashtra University, Rajkot

**SEMESTER END EXAMINATION APRIL – 2017**

**B.Sc. Information Technology**

**16UITCC07 – FOUNDATION OF NETWORKING**

*Duration of Exam – 3 hrs*

*Semester – II*

*Max. Marks – 70*

**Part A (10x1= 10 marks)**

Answer **ALL** questions

1. Give name of two network service.
2. Transmission media are directly controlled by the \_\_\_\_\_.
3. FDDI used which type of physical topology?
4. The \_\_\_\_\_ layer change bits into electromagnetic signals.
5. \_\_\_\_\_ is a set of connecting links between LANs.
6. The OSI model has \_\_\_\_\_ layers.
7. TCP/IP model was developed \_\_\_\_\_ the OSI model.
8. Twisted-Pair and coaxial cable are used \_\_\_\_\_.
9. RG-59 is used in \_\_\_\_\_ cable
10. Optical fibers use reflection to guide light through a \_\_\_\_\_.

**Part B (5X5 = 25 marks)**

Answer **ALL** questions

- 11a. Explain network Concept.

**OR**

- 11b. Explain Client Server Network Model in detail.

- 12a. Explain Star, Mesh topology in detail.

**OR**

- 12b. Explain Tree, Hybrid topology in detail

- 13a. Explain OSI 5<sup>th</sup> and 6<sup>th</sup> Layers in detail.

**OR**

- 13b. Explain OSI 1<sup>st</sup> and 2<sup>nd</sup> Layers in detail.

- 14a. Explain Twisted Pair Cable in detail.

**OR**

- 14b. Explain Fiber optic cable in detail.

15a. Explain DSL & ADSL in detail.

**OR**

15b. Explain BROUTER in detail.

**Part C (5X7 = 35 marks)**

Answer **ALL** questions

16a. Explain Network Services in detail.

**OR**

16b. Explain types of network.

17a. Explain Network Access Methods.

**OR**

17b. Explain Communication Methods.

18a. Explain TCP/IP Model.

**OR**

18b. Explain 3<sup>rd</sup> and 4<sup>th</sup> Layers in detail.

19a. Explain types of transmission media.

**OR**

19b. Explain Unguided Media.

20a. Explain MODEM and HUB.

**OR**

20b. Explain GATEWAY and ROUTER

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