

**Time: 2 Hours**

**Marks: 60**

**N.B.**

- 1) All Questions are compulsory**
- 2) Figures to right indicates marks.**
- 3) Illustration, I depth answers and diagram will be appreciated.**
- 4) Mixing of sub-questions is not allowed.**
- 5) Each question carries 6 marks.**

**Q.1 Attempt any two of the following:**

**12 Marks**

- a) Differentiate between Internet and Intranet.
- b) Explain HTTP message format.
- c) Write a short note on Multiplexing.
- d) Write a short note on virtual switching network.

**Q.2 Attempt any two of the following:**

**12 Marks**

- a) What is need of Virtualization.
- b) Write a short note on Network Virtualization.
- c) Explain VPLS topology.
- d) Differentiate between Distance vector and Link State.

**Q.3 Attempt any two of the following:**

**12 Marks**

- a) Write a short note on MANET.
- b) What are challenges for ad hoc networks?
- c) What are basic 4 types of routing in ad hoc network?
- d) Write a short note on GPVFR.

**Q.4 Attempt any two of the following:**

**12 Marks**

- a) What is need of sensor Networks
- b) Classify Protocol stack model.
- c) What are applications of WSN related to earth science research?
- d) Write a short note on localization scheme of WSN.

**Q.5 Attempt any two of the following:**

**12 Marks**

- a) Write a short note on BGP protocol.
- b) What is FIBs and RIBs? Explain.
- c) Write a short note on Topology based routing protocol.
- d) What is application sensor Networks.

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