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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.
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1. Either :

- a) What is Network? Explain LAN and MAN. 5
 - b) Explain the advantages of using Ring topology. 5
- OR**
- c) What is the need of network exists? 5
 - d) What are the disadvantages of Bus topologies? 5

2. Either :

- a) What are the social and ethical issues related to use of Internet. 5
 - b) Explain the use of LinkedIn and Facebook. 5
- OR**
- c) What is FLUSS? Explain its advantages. 5
 - d) What is search engine? Explain any two search engines available. 5

3. Either :

- a) What is computer Virus? Explain any two types of viruses. 5
 - b) What is an Antivirus program? Explain its advantages. 5
- OR**
- c) What are the important presentation methods to be adopted for securing PC? 5
 - d) Explain important characteristics of virus. 5

4. Either :

- a) Distinguish between Active and passive PC maintenance. 5
 - b) What are the advanced testing tools used by service engineers? 5
- OR**
- c) Explain the procedure for diagnostic of PC Hardware. 5
 - d) What are the common PC faults occurred in PC. 5

5. Solve all questions.

- a) Describe star topology in brief. 2½
- b) Write short notes on open source software? 2½
- c) Write short notes on worms. 2½
- d) What is active software maintenance of PC? 2½
