

Northern India Engineering College, Shastri Park, New Delhi
Department of Information Technology

Assignment 3: Fundamentals of Computing

Code ETCS – 111

Marks: 05

Course Facilitator: Dr Shafiq ul Abidin, HoD - IT

Note:

- Last date of submission on or before **22/11/2013.**
- Only hand written assignment will be accepted.
- No assignment will be accepted after due date.

- Q1. a) What is an operating system (OS)?
b) Describe various functions of OS.
- Q2. Explain various types of OS.
- Q3. Differentiate between Windows 2000 and Windows NT.
- Q4. Differentiate between GUI and Command Line OS.
- Q5. Describe various Windows Administrative Tools.
- Q6. Define Linux and explain its architecture.
- Q7. What are the advantages of computer networks.
- Q8. Differentiate among LAN, WAN and MAN.
- Q9. What do you mean by the term network topology. Which one star or mesh is better topology and why?
- Q10. What are the important factors are to be considered while choosing a network topology.
- Q11. a) What do you understand by Protocol?
b) Describe the purposes of the following protocols:
SMTP, FTP, HTTP, TCP, IP, PPP and POP3.
- Q12. Write short notes on the following:
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|-----------------------|------------|-------------------------------|
| i) Transmission Media | ii) Router | iii) Switch |
| iv) Repeater | v) OSI | Vi) File Permission in Linux. |