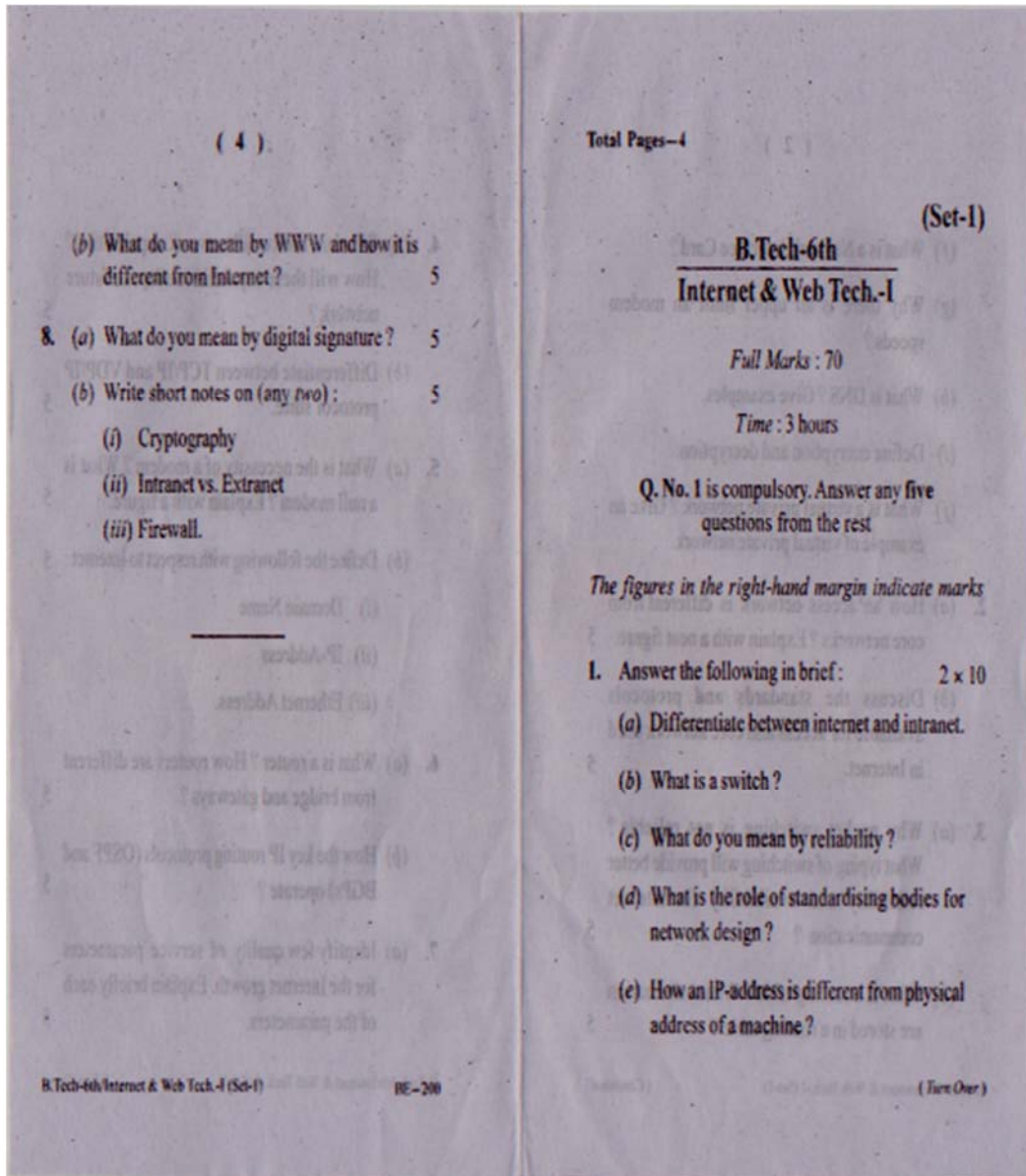


VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
& INFORMATION TECHNOLOGY
SESSION 2014-2015 (EVEN SEMESTER)



(2)

- (f) What is a Network Interface Card?
- (g) Why there is an upper limit an modem speeds?
- (h) What is DNS? Give examples.
- (i) Define encryption and decryption.
- (j) What is a virtual private network? Give an example of virtual private network.
2. (a) How an access network is different from core networks? Explain with a neat figure. 5
- (b) Discuss the standards and protocols available for access and core network used in Internet. 5
3. (a) Why packet switching is not reliable? What typing of switching will provide better reliability and availability for internet communication? 5
- (b) What is a routing table? What information are stored in a routing table? 5

(3)

4. (a) What are the key IP network capabilities? How will these capabilities adapt to future network? 5
- (b) Differentiate between TCP/IP and VDP/IP protocol suite. 5
5. (a) What is the necessity of a modem? What is a null modem? Explain with a figure. 5
- (b) Define the following with respect to Internet: 5
- (i) Domain Name
- (ii) IP-Address
- (iii) Ethernet Address.
6. (a) What is a router? How routers are different from bridge and gateways? 5
- (b) How the key IP routing protocols (OSPF and BGP) operate? 5
7. (a) Identify few quality of service parameters for the Internet growth. Explain briefly each of the parameters. 5