

CS IT 2015

(Set-1)

B.Tech-6th
Internet & Web Tech.-I

Full Marks : 70

Time : 3 hours

Q. No. 1 is compulsory. Answer any five questions from the rest

The figures in the right-hand margin indicate marks

1. Answer the following in brief : 2 x 10
- (a) Differentiate between internet and intranet.
- (b) What is a switch ?
- (c) What do you mean by reliability ?
- (d) What is the role of standardising bodies for network design ?
- (e) How an IP-address is different from physical address of a machine ?

- (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

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

- (b) What do you mean by WWW and how it is different from Internet ? 5
8. (a) What do you mean by digital signature ? 5
- (b) Write short notes on (any two) : 5
- (i) Cryptography
- (ii) Intranet vs. Extranet
- (iii) Firewall.

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