

**FIFTH SEMESTER EXAMINATION-2005**

**INTERNET TECHNOLOGY**

**Full Marks - 70**

**Time : 3 Hours**

*The figures in the right hand margin indicate full marks for the questions.*

*Answer question No. 1 which is compulsory and any five from the rest.*

1. Answer the following in a sentence or two :

2×10

(a) What is the difference between connectionless and connection-oriented protocols ?

(b) UDP layer in TCP/IP protocol supports connectionless service. (True/False)

P.T.O.

- (c) What is the full form of OSPF ?
- (d) What is the range of Class-C IP Address ?
- (e) What is the full form of IETF ?
- (f) What is the functionality of an ISP ?
- (g) What is the requirement for a routing algorithm ?
- (h) What is the significance of '4' in the protocol name "BGP-4" ?
- (i) What are the major causes of changing to IPV6 ?
- (j) What is the difference between symmetric and asymmetric key encryption technique ?

2. Discuss the circuit switching mechanism and also discuss the routing mechanism used in circuit switching. 10

3. What do you mean by Inverse Mapping ? Discuss the process of mapping of Domain Names to IP address. 10
4. (a) What do you mean by FTP ? Discuss different features of FTP. 5
- (b) Discuss the FTP process model. 5
5. What is the use of HTTP Protocol ? Discuss its characteristics and also discuss about the GET request used in HTTP. 10
6. Discuss briefly about OSPF protocol. Also discuss the OSPF message format. 10
7. (a) What are the security issues in E-Commerce ? 4
- (b) What is the role of encryption in E-Commerce ? 4
- (c) What is the difference between authentication and authorization ? 2

8. Write short notes on any *two* : 5×2

(a) Virtual Reality over Web

(b) Search Engines ✓

(c) Digital Signature ✓

(d) BGP-4 protocol

IWL