

7th SEMESTER TERM END EXAMINATION- 2021
UTKAL UNIVERSITY
INTEGRATED MCA
SUB:-COMPUTER NETWORKS
(Paper Code-7.2)

Full Marks: 70

Time: 2 Hrs

*Answer **ALL FIVE** questions
The figure in the right hand margin indicates marks*

1. (a) Convert the IP address into dotted decimal form. [2]
11111111 00000000 11111111 11111111
- (b) Convert the IP address into binary form. [2]
255.128.64.32
- (c) Identify the errors if any in the following IP address. [4]
(i) 121.052.12.255 (ii) 11111111 00000000 64 11111111
- (d) A block addresses is granted to a small organisation. We know that one of the address is 255.16.64.32/28, Find the [6]
(i) First address in the block
(ii) Last address of the block
- OR*
- (e) Discuss Distance Vector Routing Protocol. [14]
2. (a) Explain the technique to improve QoS. [14]
- OR*
- (b) Discuss TCP Segment format. [14]
3. (a) Discuss architecture of E-mail. [14]
- OR*
- (b) Explain the followings: [7x2]
(i) FTP (ii) DNS
4. (a) Discuss multimedia Real-Time Streaming Protocol (RTSP). [14]
- OR*
- (b) Write notes on: [7x2]
(i) HTTP (ii) WWW
5. (a) Discuss RSA algorithm. Encrypt the message 'AB' using p=3 and q=11. [14]
- OR*
- (b) Explain Diffie-Hellman Key Exchange algorithm with an example. [14]