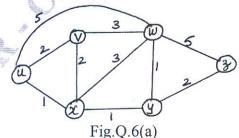
Module-3

- Explain inter autonomous system routing with Border Gateway protocol. (08 Marks) 5 a. Explain various Broadcast Routing algorithms. (08 Marks)
  - Write a note on IGMP protocol. (04 Marks)

#### Write the link state algorithm and apply it to the following graph. Assume node 'u' as the (10 Marks) source node.



Explain the architecture of a Router.

(10 Marks)

2. Any revealing of identification, appeal to evaluator and lor equations written eg, 42+8=50, will be treated as malpractice

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages

1 of 2

## Module-4

7 a. What are the elements of network security? Discuss the threats to network security.

(10 Marks)

b. Explain RSA algorithm. Using RSA encrypt a message m = 9. Assume p = 3 and q = 11. Find the public key and private key, also show encryption and decryption. (10 Marks)

### OF

- 8 a. Explain the working of DES algorithm. (08 Marks)
  - b. Discuss the secure Hash Algorithm.
    c. Write a note on firewalls.
    (06 Marks)
    (06 Marks)

## Module-5

- 9 a. Explain the types of multimedia network applications. (06 Marks)
  - b. Briefly explain how DNS redirects a user request to a CDN server. (08 Marks)
  - c. With a diagram, explain SIP call establishment. (06 Marks)

# OR

- 10 a. What are the properties of video and audio? Explain in detail. (07 Marks)
  - b. With a neat diagram, explain streaming stored video over HTTP. (07 Marks)
  - c. Explain the Forward Error Correction (FEC) technique for loss anticipation in VoIP application. (06 Marks)