RAMA UNIVERSITY

www.ramauniversity.ac.in

# FACULTY OF ENGINEERING & TECHNOLOGY

## BCA-302Computer Networks

## Lecture-22

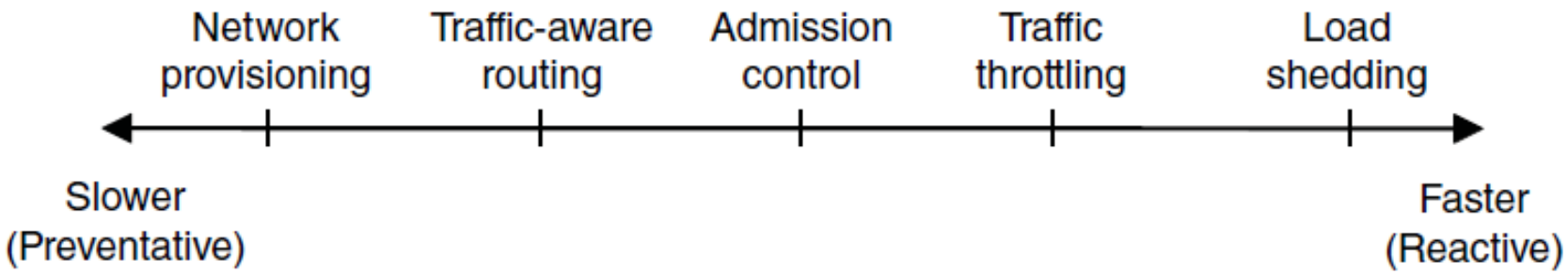
Mr. Dilip Kumar J Saini
Assistant Professor
Computer Science & Engineering

# OUTLINE

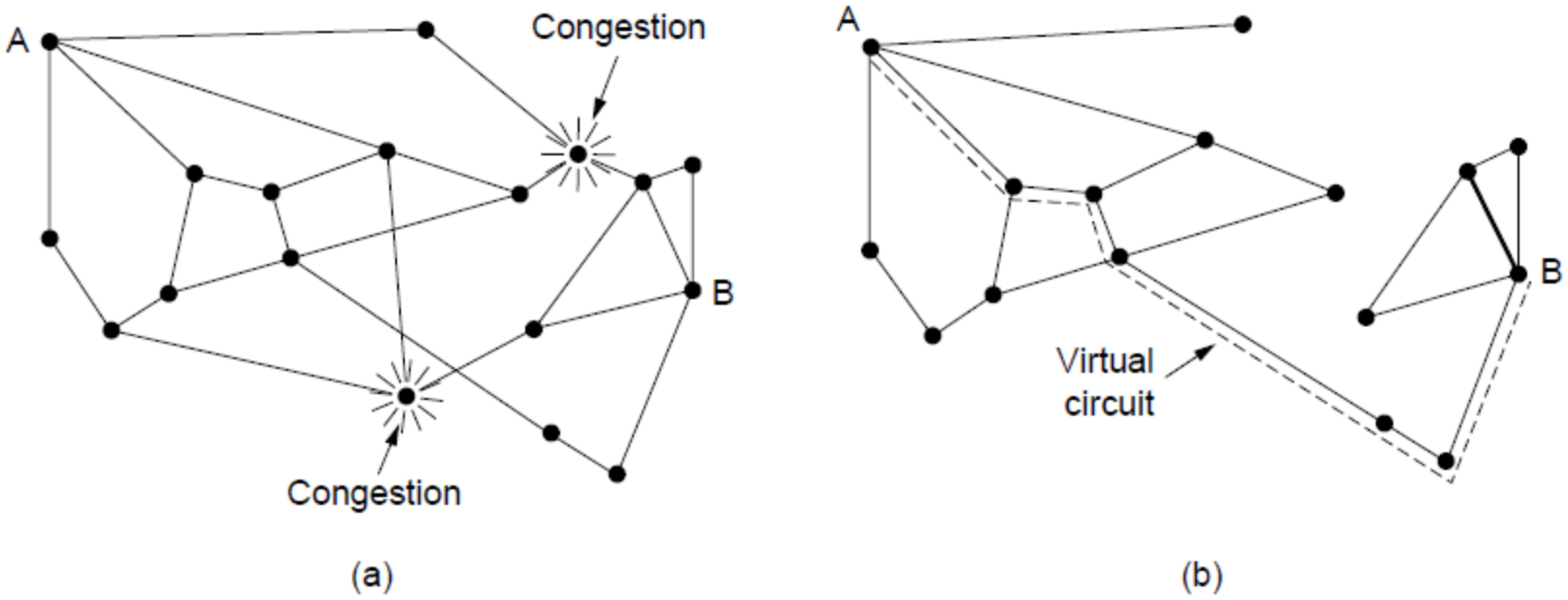
- APPROACHES TO CONGESTION CONTROL
- TRAFFIC THROTTLING
- LOAD SHEDDING

# APPROACHES TO CONGESTION CONTROL

## Timescales of approaches to congestion control

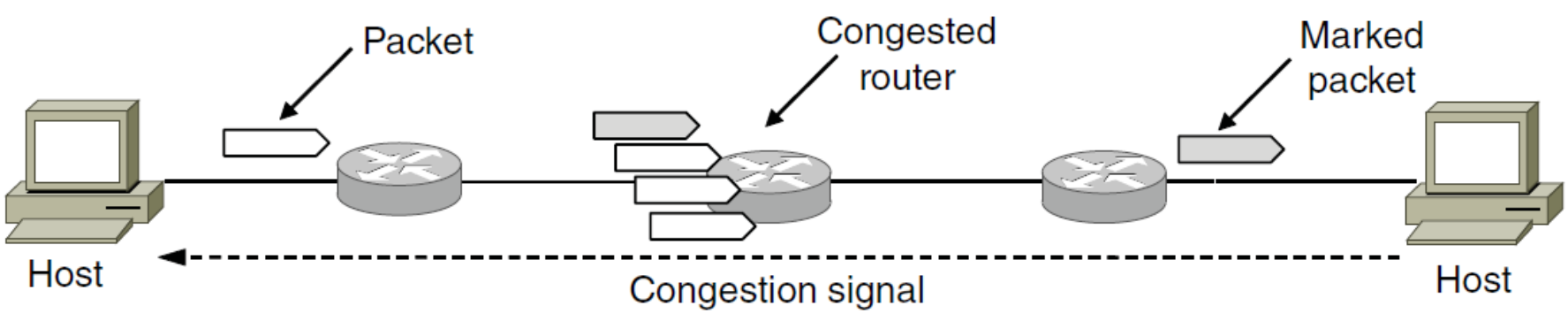


# TRAFFIC THROTTLING

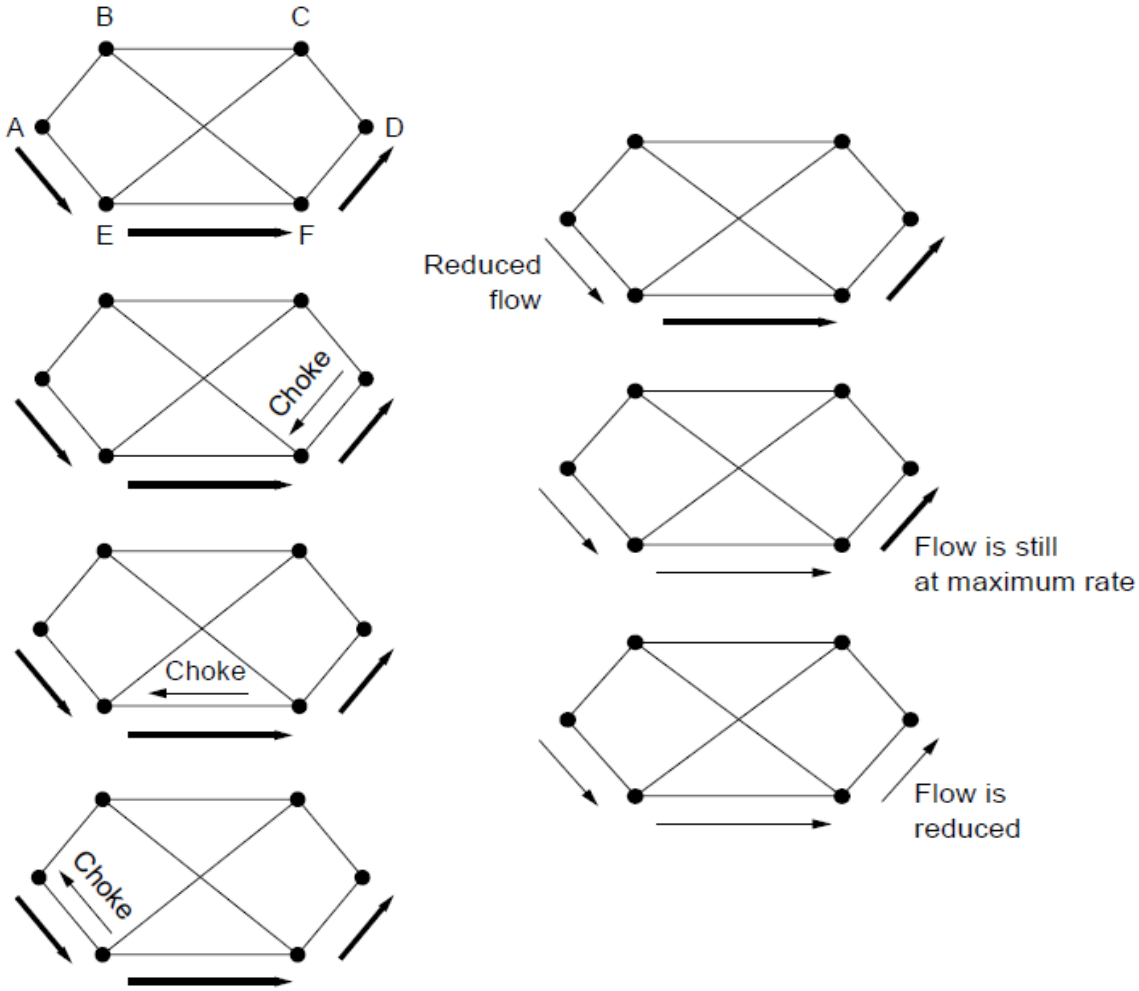



(a) A congested network. (b) The portion of the network that is not congested. A virtual circuit from A to B is also shown

## Explicit congestion notification

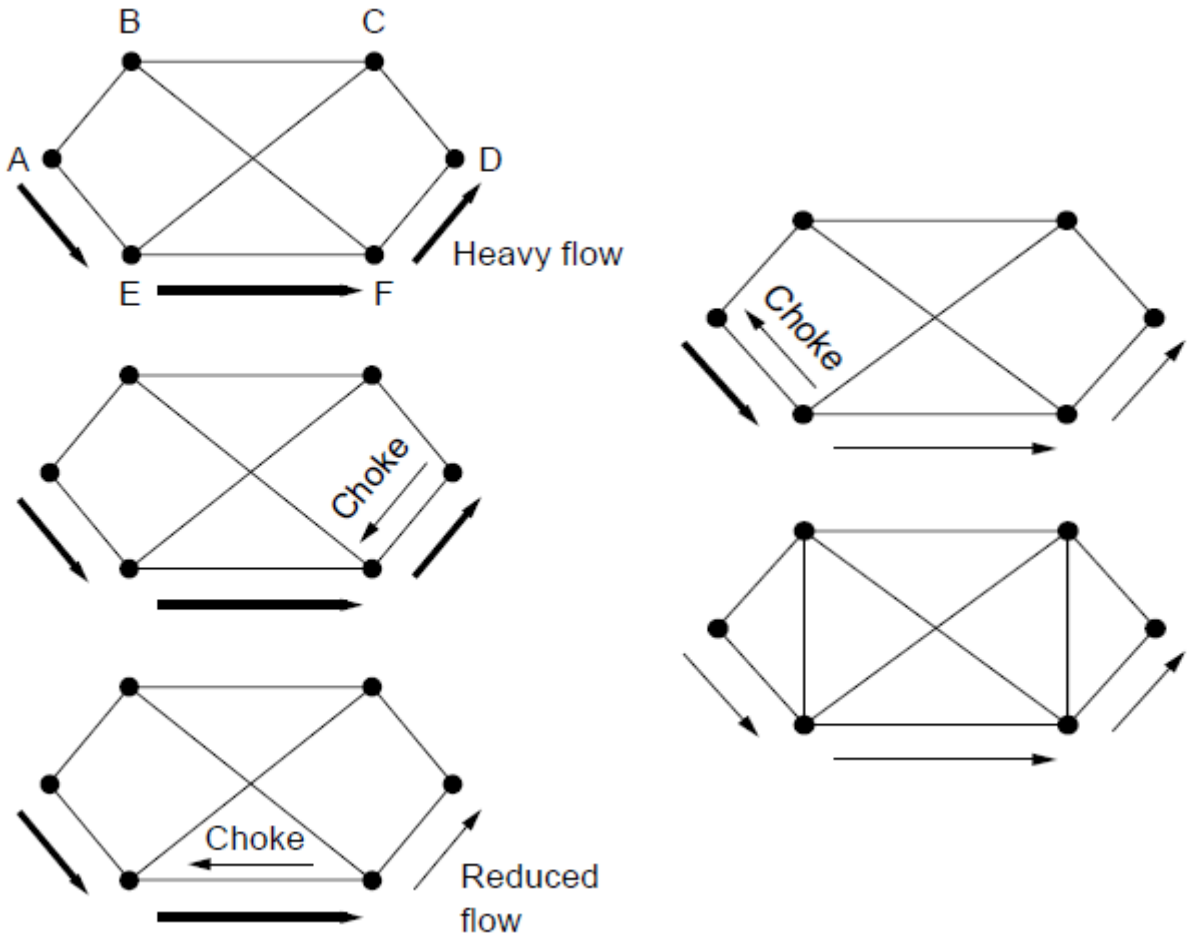


# LOAD SHEDDING




A choke packet that affects only the source

# LOAD SHEDDING




A choke packet that affects each hop it passes through

# Multiple Choice Question

## MUTIPLE CHOICE QUESTIONS:

| Sr no | Question | Option A | Option B | OptionC | OptionD |
|---|---|---|---|---|---|
| 1 | What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask? | 14 | 15 | 16 | 30 |
| 2 | You need to subnet a network into 5 subnets, each with at least 16 hosts. Which classful subnet mask would you use? | 255.255.255.192 | 255.255.255.224 | 255.255.255.240 | 255.255.255.248 |
| 3 | You have a network that needs 29 subnets while maximizing the number of host addresses available on each subnet. How many bits must you borrow from the host field to provide the correct subnet mask? | 2 | 3 | 4 | 5 |
| 4 | If an Ethernet port on a router were assigned an IP address of 172.16.112.1/25, what would be the valid subnet address of this host? | 172.16.112.0 | 172.16.0.0 | 172.16.96.0 | 172.16.255.0 |
| 5 | You have an interface on a router with the IP address of 192.168.192.10/29. Including the router interface, how many hosts can have IP addresses on the LAN attached to the router interface? | 6 | 8 | 30 | 32 |

# REFERENCES


- http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html