



RAMA UNIVERSITY

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FACULTY OF ENGINEERING & TECHNOLOGY

BCA-302 Computer Networks

Lecture-24

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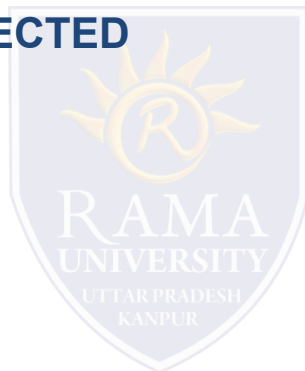
OUTLINE

➤ DIFFERENTIATED SERVICES

➤ HOW NETWORKS DIFFER

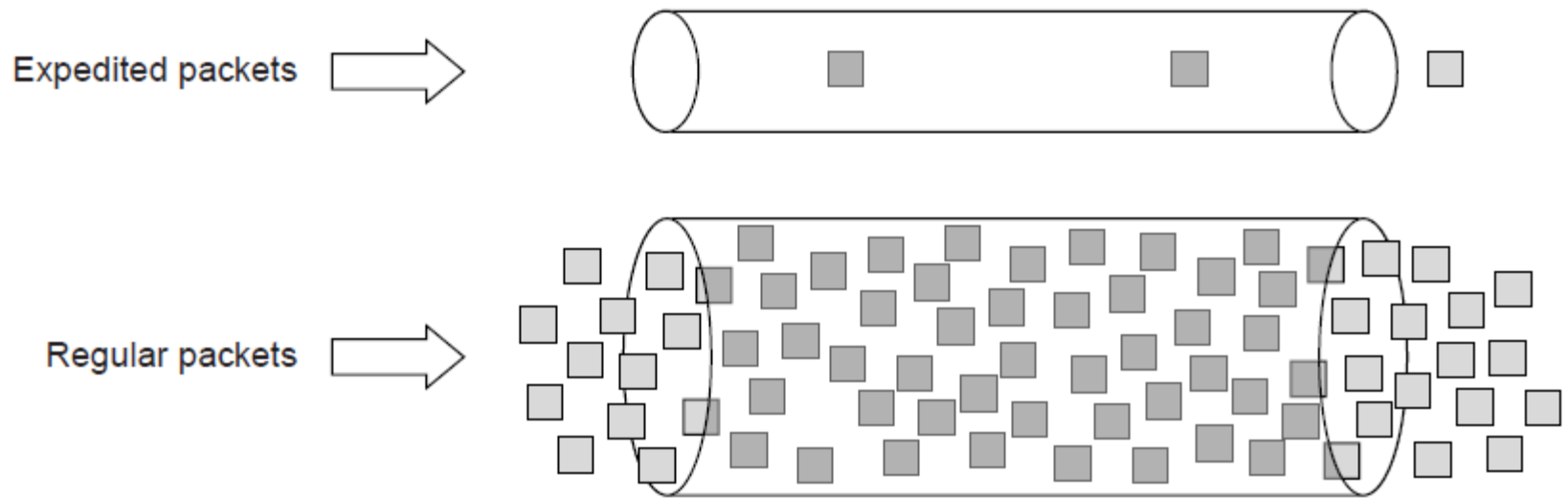
➤ HOW NETWORKS CAN BE CONNECTED

➤ TUNNELING



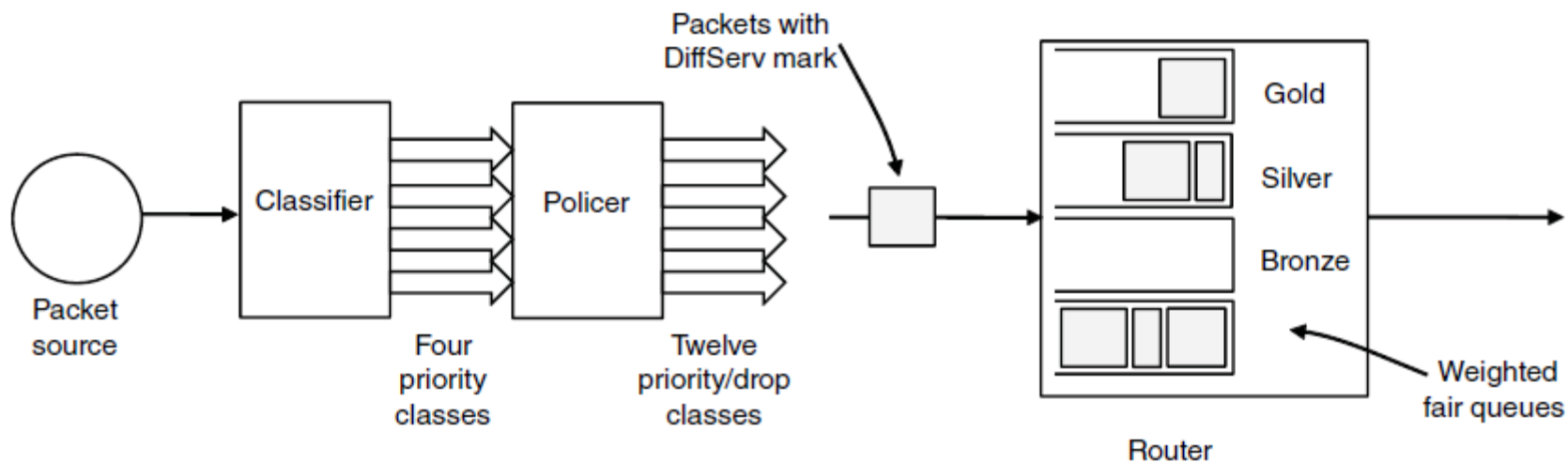
DIFFERENTIATED SERVICES

Expedited packets experience a traffic-free network



DIFFERENTIATED SERVICES

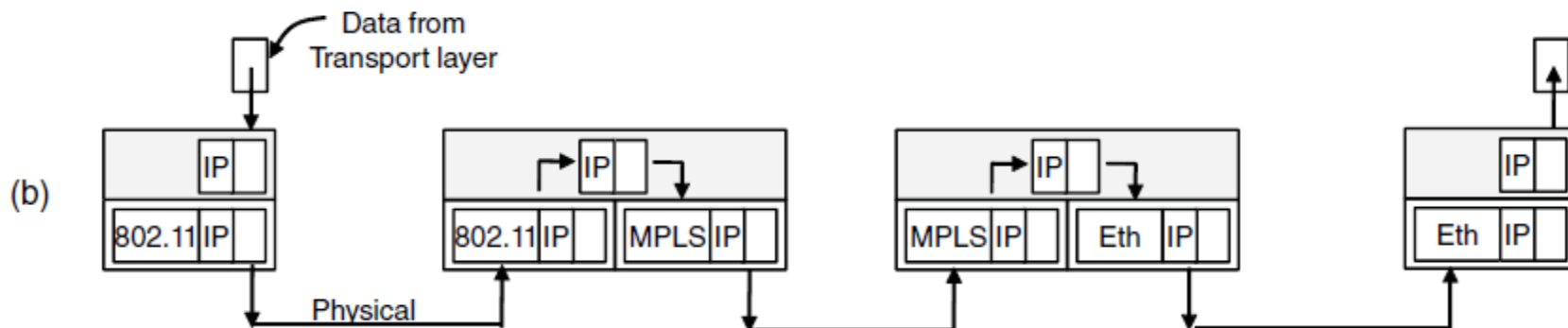
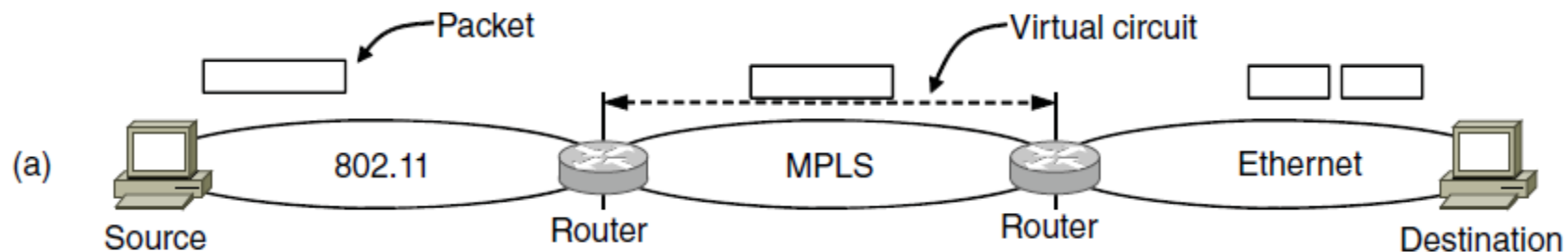
A possible implementation of assured forwarding



HOW NETWORKS DIFFER

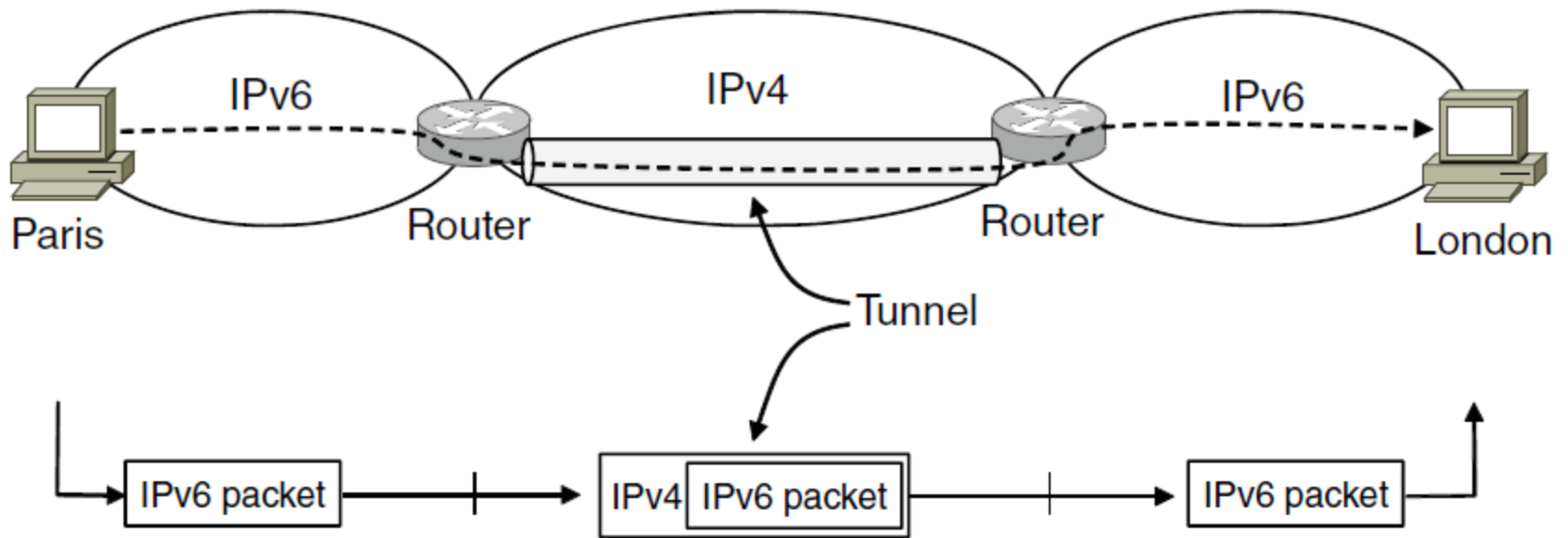
Item	Some Possibilities
Service offered	Connectionless versus connection oriented
Addressing	Different sizes, flat or hierarchical
Broadcasting	Present or absent (also multicast)
Packet size	Every network has its own maximum
Ordering	Ordered and unordered delivery
Quality of service	Present or absent; many different kinds
Reliability	Different levels of loss
Security	Privacy rules, encryption, etc.
Parameters	Different timeouts, flow specifications, etc.
Accounting	By connect time, packet, byte, or not at all

HOW NETWORKS CAN BE CONNECTED



(a) A packet crossing different networks.
(b) Network and link layer protocol processing

TUNNELING



Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	What is auto negotiation?	a procedure by which two connected devices choose common transmission parameters	a routing algorithm	a security algorithm	encryption algorithm
2	Ethernet in metropolitan area network (MAN) can be used as _____	pure ethernet	ethernet over SDH	ethernet over MPLS	all of the mentioned
3	A point-to-point protocol over ethernet is a network protocol for _____	encapsulating PPP frames inside ethernet frames	encapsulating ethernet framse inside PPP frames	for security of ethernet frames	for security of PPP frames
4	High speed ethernet works on _____	coaxial cable	twisted pair cable	optical fiber	unshielded twisted pair cable
5	The maximum size of payload field in ethernet frame is _____	1000 bytes	1200 bytes	1300 bytes	1500 bytes

REFERENCES

- <http://www.engppt.com/2009/12/networking-fourzan-ppt-slides.html>

