All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by the well known author behrouz A forouzan.

This Data Communication and Networking – Congestion Control and Quality of Service multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

- 1. Stream socket Multiple Choice Question and Answer.
- 2. Datagram socket Multiple Choice Question and Answer.
- 3. Raw socket Multiple Choice Question and Answer.
- 4. Client-server model Multiple Choice Question and Answer.

### Practice now to sharpen your concept.

A. conge B. qualit C. either	we try to avoid traffic congestion. estion control y of service (a) or (b) (a) and (b)
the traffic A. conge B. qualit C. either	, we try to create an appropriate environment for estion control y of service (a) or (b) (a) and (b)
<b>3.</b> Traffic A. contro	are qualitative values that represent a data flow.



	B. descriptors C. values D. none of the above
	D. Hone of the above
4.	The defines the maximum data rate of the traffic A. peak data rate B. maximum burst size C. effective bandwidth D. none of the above
	The normally refers to the maximum length of time the affic is generated at the peak rate.  A. peak data rate  B. maximum burst size  C. effective bandwidth  D. none of the above
6.	. The is a function of three values: average data rate,
	eak data rate, and maximum burst size. A. peak data rate B. maximum burst size C. effective bandwidth D. none of the above
7.	A traffic model has a data rate that does not change. A. constant bit rate B. variable bit rate C. bursty D. none of the above



<b>8.</b> In the	traffic model, the rate of the data flow changes in
time, with the	changes smooth instead of sudden and sharp.
A. constan	t bit rate
B. variable	bit rate
C. bursty	
D. none of	the above
<b>9</b> . In the	traffic model, the data rate changes suddenly in a
very short tin	ne.
A. constan	t bit rate
B. variable	bit rate
C. bursty	
D. none of	the above
10	happens in any system that involves waiting.
A. Conges	tion
B. Jammin	g
C. Error	

D. none of the above

Answer key for MCQ SET- 1	
Q-1	Correct Answer :congestion control
Q-2	Correct Answer :quality of service
Q-3	Correct Answer :descriptors
Q-4	Correct Answer :peak data rate
Q-5	Correct Answer :maximum burst size
Q-6	Correct Answer :effective bandwidth
Q-7	Correct Answer :constant bit rate

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Q-8	Correct Answer :variable bit rate
Q-9	Correct Answer :bursty
Q-10	Correct Answer : Congestion

# Congestion Control and Quality of Service multiple choice questions and answers MCQ Set-2

1. Congestion in a network	cor internetwork occurs because routers
and switches have	
A. tables	
B. queues	
C. crosspoints	
D. none of the above	
•	load is much less than the capacity of the
network, the delay is	
A. at a maximum	
B. at a minimum	
C. constant	
D. none of the above	
3. In a network, when the l	load reaches the network capacity, the
delay	
A. increases sharply	
B. decreases sharply	
C. remains constant	
D. cannot be predicted	



4. In a network, when the load is below the capacity of the networ	
the through	put
A. increas	ses sharply
B. increas	ses proportionally with the load
C. decline	es sharply
D. decline	es proportionally with the load
5. In a netw	ork, after the load reaches the capacity, throughput
A increas	ses sharply
	ses proportionally with the load
	es sharply
	es proportionally with the load
	congestion control, policies are applied to prevent pefore it happens
B. closed	•
C. either	•
	(a) nor (b)
<b>7</b> . In	congestion control, mechanisms are used to alleviate
_	fter it happens
A. open-le	•
B. closed	•
C. either	
D. neither	(a) nor (b)



8. The technique of \_\_\_\_\_\_\_refers to a congestion control mechanism in which a congested node stops receiving data from the immediate upstream node or nodes

A. backpressure
B. choke packet
C. implicit signaling
D. explicit signaling

9. A \_\_\_\_\_\_ is a packet sent by a node to the source to inform it of congestion
A. backpressure
B. choke packet
C. implicit signaling
D. explicit signaling
D. explicit signaling
There is no communication between the congested node or nodes and the source. The source guesses that

there is a congestion somewhere in the network from other

**symptoms** 

A. backpressure B. choke packet

C. implicit signaling D. explicit signaling

Answer key for MCQ SET- 2	
Q-1	Correct Answer :queues
Q-2	Correct Answer :at a minimum
Q-3	Correct Answer :increases sharply



Q-4	Correct Answer :increases proportionally with
	the load
Q-5 Correct Answer :declines sharply	
Q-6	Correct Answer :open-loop
Q-7	Correct Answer :closed-loop
Q-8	Correct Answer :backpressure
Q-9	Correct Answer :choke packet
Q-10	Correct Answer :implicit signaling

## Congestion Control and Quality of Service multiple choice questions and answers MCQ Set-3

- 1. In the \_\_\_\_\_ method, the signal is included in the packets that carry data.
  - A. backpressure
  - B. choke packet
  - C. implicit signaling
  - D. explicit signaling
- 2. In the \_\_\_\_\_ algorithm of TCP, the size of the congestion window increases exponentially until it reaches a threshold
  - A. slow-start
  - B. congestion avoidance
  - C. congestion detection
  - D. none of the above



<b>3.</b> In the algor	ithm of TCP, the size of the congestion
	ely until congestion is detected
A. slow-start	
B. congestion avoidance	
C. congestion detection	n
D. none of the above	
<b>4.</b> In the alg	orithm of TCP, the size of the threshold is
dropped to one-half, a mu	ltiplicative decrease
A. slow-start	
B. congestion avoidand	
C. congestion detection	n
D. none of the above	
<b>5.</b> In Frame Relay, the	bit warns the sender of congestion
in the network	
A. BECN	
B. FECN	
C.either (a) or (b) D.neither (a) nor (b)	
D. Heither (a) Hor (b)	
<b>6.</b> In Frame Relay, the	bit is used to warn the receiver of
congestion in the network	
A. BECN	
B. FECN	
C. either (a) or (b)	
D. neither (a) nor (b)	
<b>7</b> . Traditionally,flow	_types of characteristics are attributed to a

	A. two B. three C. four D. five
8. lo	is a characteristic that a flow needs. Lack of it means sing a packet or acknowledgment, which entails retransmission.  A. Reliability  B. Delay  C. Jitter  D. Bandwidth
	is a flow characteristic that applications can tolerate in fferent degrees.  A. Reliability  B. Delay  C. Jitter  D. Bandwidth
	O is the variation in delay for packets belonging to the me flow.  A. Reliability B. Delay C. Jitter D. Bandwidth



Answer key for MCQ SET- 3	
Q-1	Correct Answer :explicit signaling
Q-2	Correct Answer :slow-start
Q-3	Correct Answer :congestion avoidance
Q-4	Correct Answer :congestion detection
Q-5	Correct Answer :BECN
Q-6	Correct Answer :FECN
Q-7	Correct Answer :four
Q-8	Correct Answer :Reliability
Q-9	Correct Answer :Delay
Q-10	Correct Answer : Jitter

# Congestion Control and Quality of Service multiple choice questions and answers MCQ Set-4

<b>1</b> . In	_, queuing packets wait in a buffer (queue) until the
node (router o	or switch) is ready to process them.
A. FIFO	
B. priority	
C. weighted	d fair
D. none of the above	
<b>7</b> In	queuing, packets are first assigned to a priority
	_ queuing, packets are first assigned to a priority iss has its own queue.
A. FIFO	iss has its own queue.
_	
B. priority	

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C. weighte D. none o	ed fair f the above
classes and a weighted bas a higher wei round-robin queue based A. FIFO	queuing, the packets are assigned to different admitted to different queues. The queues, however, are sed on the priority of the queues; higher priority means ght. The system processes packets in each queue in a fashion with the number of packets selected from each on the corresponding weight
B. priority C. weighte D. none o	
bucket and s A. leaky B. token C. either (	bucket algorithm, bursty chunks are stored in the sent out at an average rate.  (a) or (b) (a) nor (b)
credit for the A. leaky B. token C. either (	bucket algorithm allows idle hosts to accumulate the future in the form of tokens  (a) or (b) (a) nor (b)
	, when a source makes a reservation, it needs to specification

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	A. Integrated Services B. Differentiated Services C. Connectionless D. Connection-Oriented	
7.	is a class-based QoS model A. Integrated Services B. Differentiated Services C. Connectionless D. Connection-Oriented	designed for IP
8.	In Frame Relay, the user can n A. access rate B. committed burst size C. committed information rate D. excess burst size	ever exceed the
in	In Frame Relay, aa predefined time that the netwithout discarding any frame or set. A. access rate B. committed burst size C. committed information rate D. excess burst size	
	O. In Frame Relay, thets per second A. access rate B. committed burst size C. committed information rate	defines an average rate in

## D. excess burst size

Answer key for MCQ SET- 4			
Q-1	Correct Answer :FIFO		
Q-2	Correct Answer :priority		
Q-3	Correct Answer :weighted fair		
Q-4	Correct Answer :leaky		
Q-5	Correct Answer :token		
Q-6	Correct Answer :Integrated Services		
Q-7	Correct Answer : Differentiated Services		
Q-8	Correct Answer :access rate		
Q-9	Correct Answer :committed burst size		
Q-10	Correct Answer :committed information rate		

