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Courses » Satellite Communication Announcements Course Ask a Question **Progress** Unit 9 - Week 8 Course outline **Assignment-8** Due on 2017-10-18, 23:59 I The due date for submitting this assignment has passed. How to access the As per our records you have not submitted this assignment. portal? Week 1 If RTO fires after cwnd reached 64 KB, how long it will take to reach thought Week 2 128 Kbytes/s? Assume: RTT = 0.5 sec, segment size = 0.5 KB. Week 3 A. 32 sec Week 4 B. 35 sec Week 5 o C. 3 sec Week 6 D. 5 sec Week 7 No, the answer is incorrect. Score: 0 Week 8 **Accepted Answers:** Ouiz: Assignment-8 B. 35 sec O Lecture 36 : Effect on High Layer - I 5 points Find the duration of slow start without loss of any segments. The parameters spe CLecture 37 : Effect on High Laver - II are, RTT = 0.5 s, ssthresh = 64 KB and segment size is 0.5 KB. O Lecture 38 : Effect on High Layer - III A. 2.5 milliseconds O Lecture 39 : Satellite B. 3.5 seconds Navigation - I Lecture 40 : Satellite C. 2 seconds Navigation - II D. 3 milliseconds ○ Week 8: Assignment Solution No, the answer is incorrect. Score: 0 **Accepted Answers:** B. 3.5 seconds In a satellite based data communication system using TCP, the header is used in A. TCP segment only B. IP segment only C. satellite MAC frame only D. all of these No, the answer is incorrect. Score: 0 **Accepted Answers:** D. all of these

Which of the following is(are) the characteristic(s) of the Transmission Control

A. Maintaining the source and delivery port address

B. ReliabilityC. Flow control

tocol

O. All of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
D. All of these	
5)	5 po
For fixed window size, if the Round Trip Time (RTT) increases de	ue to a sa
channel, the throughput will	<b>y</b>
○ A. increase	
B. decrease	
C. remain unaltered	in
D. throughput does not depend on RTT	$g^+$
No, the answer is incorrect.	
Score: 0	
Accepted Answers: B. decrease	
6)	5 points
A TCP connection is set with window size of 64 KB uses a satellite window size of 300 ms between sender and receiver stations. The maximum possil	ith one hop
T 45 T.	
A. 8.066 Mbps	
B. 0.8533 Mbps	
C. 8.066 Kbps	
D. 0.8533 Kbps	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
B. 0.8533 Mbps	
7)	5 points
In GNSS signal model given below, which parameter contains the sa	tellite ephe
$y_i(t) = \sqrt{2C_i}d_i(t)c_i(t)\cos(2\pi f_i t + \phi_i)$	
$_{\odot}$ A. $\phi$	
⊙ B. C	
○ C. c	
○ D. d	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
D. d	
8)	5 points
If ssthresh is 128 Kbytes and segment size is 500 bytes, find how m	THE RESIDENCE OF THE PARTY OF T
required for <i>cwnd</i> equal to <i>ssthresh</i> during the slow start phase.	
A. 32	
B. 16	
C. 4	
D. 8	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
D. 8	
9)	5 points

An observer at the geographical North Pole (0,0,6378 Km) has a GPS receiver at an instant of time, measures same delay of 0.17097528 sec from four GPS lites. The four satellite coordinates at that instant of time are (0,13280.5,2300(0,-13280.5,23002.5)), (13280.5,0,23002.5) and (-13280.5,0,23002.5) where al tances are in km. Determine the clock offset error in GPS receiver when the velocity of the light is  $2.99792458 \times 10^5 \text{ km/s}$ .

- A. 0.10000 sec
- B. 0.92356 sec
- C. 0.01 msec
- D. 0.92356 msec

No, the answer is incorrect. Score: 0

**Accepted Answers:** 

A. 0.10000 sec

Measured received signal from each GPS satellite contains Signal power, PRN identifying the satellite, Navigation data, measured code delay, transmit freq with Doppler offset. For initial signal acquisition which two parameters are sear

- A. Navigation data and PRN code
- B. PRN code and delay
- C. Code Delay and frequency
- D. none of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

C. Code Delay and frequency

You were allowed to submit this assignment only once

Previous Page

End

5 points

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