

NPTEL » Computer architecture and organization

Announcements

About the Course

Ask a Question

Progress Mentor

Register for Certification exam

Course outline How does an NPTEL online course work? Week 0 Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7

Thank you for taking the Week 8: Assignment 8.

Week 8: Assignment 8

Your last recorded submission was on 2021-09-21, 18:37 IST

- Which of the following fractions can be represented exactly in binary?
 - a. 0.75
 - b. 0.50
 - c. 0.33
 - d. 0.66
 - e. 0.99
 - f. 0.25
- ✓ a.
- ✓ b.
- □ c.
- □ d.
- □ e.
- **✓** f.

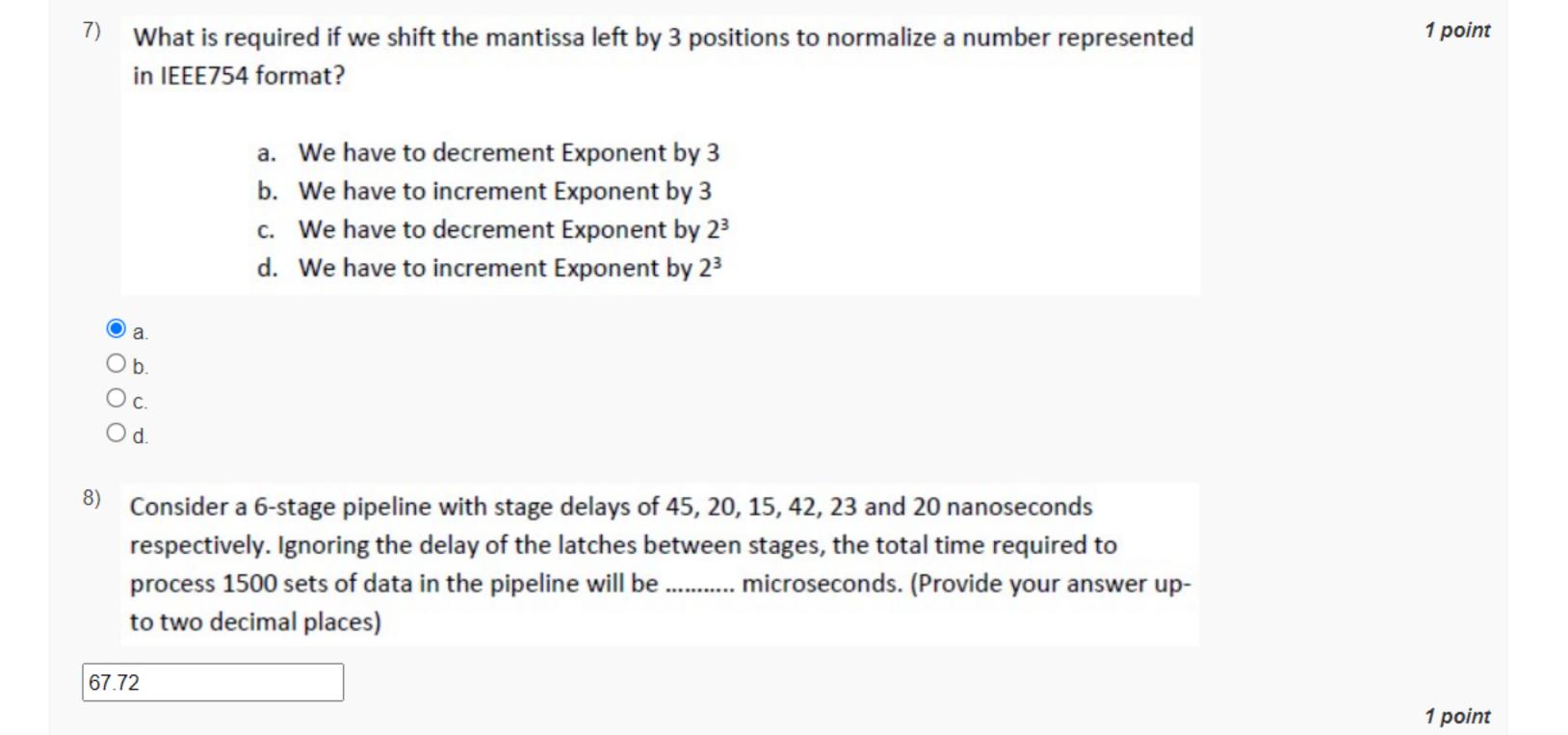
Due date: 2021-09-22, 23:59 IST.

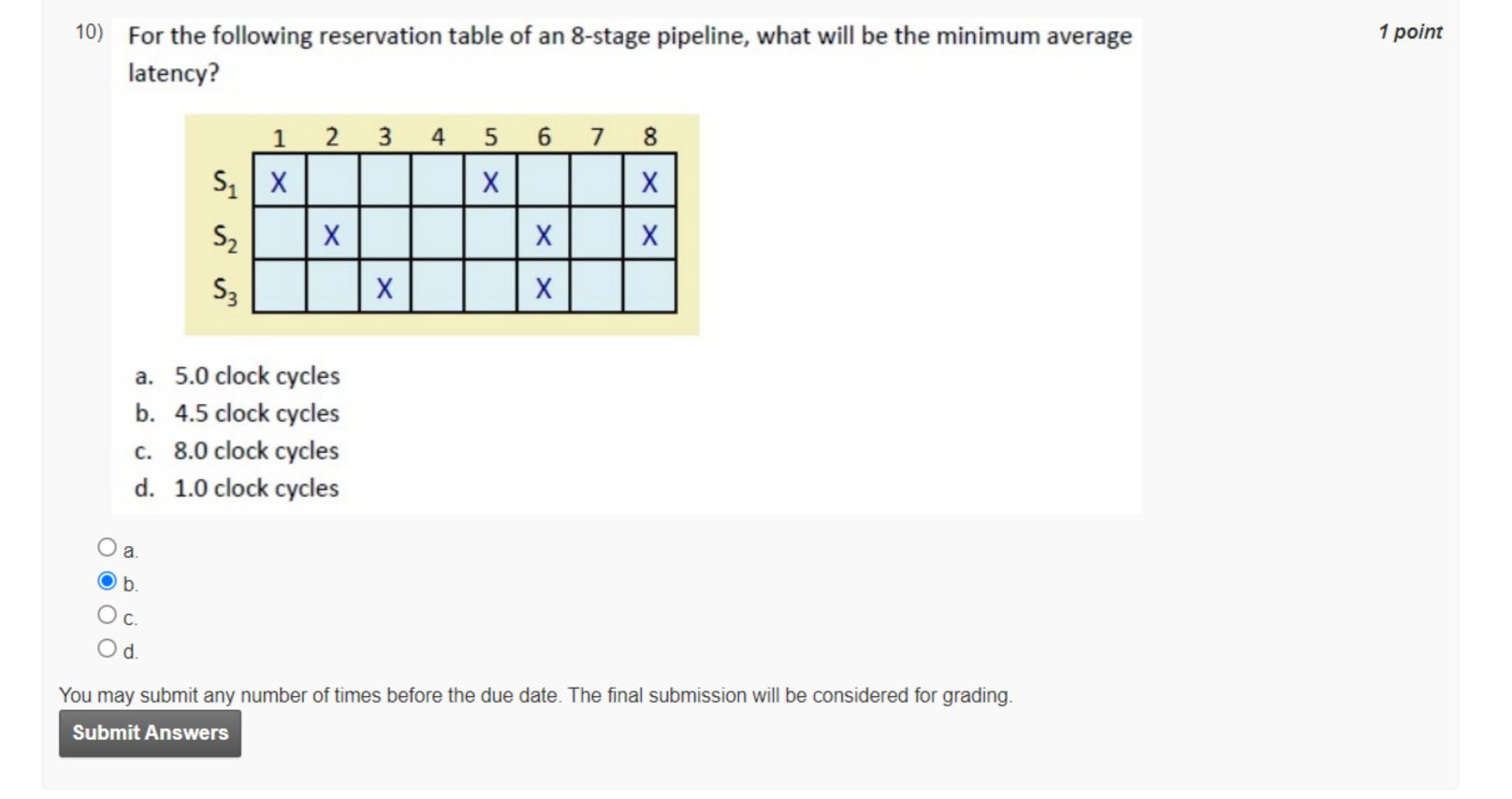
1 point

Week 8	2) For any binary number shifting the fraction point left by 2 position is equivalent to?	1 point
O Lecture 38: FLOATING- POINT NUMBERS	a. Dividing value by 4	
O Lecture 39: FLOATING- POINT ARITHMETIC	b. Multiplying value by 4 c. Adding 2	
Lecture 40: BASIC PIPELINING CONCEPTS	d. Subtracting 2 e. None of these.	
Lecture 41: PIPELINE SCHEDULING	a.	
Lecture 42: ARITHMETIC PIPELINE	O b. O c.	
Week 8 Lecture Material	○ d. ○ e.	
Quiz: Week 8 : Assignment8		1 noint
Feedback form for Week 8	For a single precision floating point number representation in IEEE-754 format, how many bits are used to represent mantissa?	1 point
Week 9	a. 23	
DOWNLOAD VIDEOS	b. 24 c. 8	
Assignments Solution	d. 127 e. None of these	
Text Transcripts		
Books	● a.○ b.○ c.○ d.	
	O e.	
	Consider a floating point representation with 39-bit mantissa (including the implied bit), the number of significant digit in decimal will be	

1 point

5)	The interpretation of the single precision floating point number 1000 0000 0001 1111 0000 0000 0000 1111 represented in IEEE-754 format will be:	
	a. 0	
	b. Very close to 0	
	c. Not a number	
	d. Infinity	
) a.	
	b.	
) c.	
	O d.	
6)	Consider the following statements: (i) IEEE-754 floating point representation requires shifting of mantissa for multiplication and division operation. (ii) Shifting of mantissa affects exponent value of the number.	1 point
	Which of the following statement is correct?	
	a. Only (i) is true	
	b. Only (ii) is true	
	c. Both (i) and (ii) are true	
	d. Both (i) and (ii) are false.	
	a.	
	b. D c.	
	o d.	





Note: All these answers are confirmed from our side, we don't guarantee that you will get a 100% score. These are our own answers that we are sharing with you all. If you have any doubt that our answers are not correct then feel free to discuss (in-group) or do your own answer.

Most important: We don't promote any type of cheating, these answers are only for those students who are not able to do it on their own or need some help.