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Courses » Principles of Digital Communications

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## Unit 9 - Week 8

### Course outline

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- Lecture 39 : Pulse Shaping for Zero ISI - I
- Lecture 40 : Pulse Shaping for Zero ISI - II
- Lecture 41 : Pulse Shaping for Zero ISI - III
- Lecture 42 : Partial Response Signaling - I
- Lecture 43 : Partial Response Signaling - II
- Download Videos
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### Assignment 8

The due date for submitting this assignment has passed. **Due on 2018-09-26, 23:59 IST.**  
As per our records you have not submitted this assignment.

1) A source generates binary data at the rate of 100 kbps and it is transmitted over a baseband binary PAM system designed to have a raised-cosine spectrum. Assume that the available absolute maximum channel bandwidth is 75 kHz. The roll-off factor is ...

**No, the answer is incorrect.****Score: 0****Accepted Answers:***(Type: Numeric) 0.5***1 point**

2) The binary data stream 0011010001 is applied to the input of a duobinary system. The duobinary coder output and corresponding receiver output, **without** a precoder is shown below.

Time slot	0	1	2	3	4	5	6	7	8
Input bit stream:	0	0	1	1	0	1	0	0	0
Samples of the received signal (duobinary coder output)	-1	-2	0	2	?	?	?	?	?

The sample of the received signal in time slot 5 is ...

**No, the answer is incorrect.****Score: 0****Accepted Answers:***(Type: Numeric) 0***1 point**

3) In Question-2, suppose that owing to error during transmission, the level at the receiver input produced in the time slot 3 is reduced to '0'. The receiver output in time slot 6 is ...

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Week 11

Week 12

Time slot	0	1	2	3	4	5	6	7	8
Input bit stream	0	0	1	1	0	1	0	0	0
Precoded bit stream; start bit "1"	1	1	0	1	1	0	0	0	0
Samples of the received signal (duobinary coder output)		2	0	0	2	?	?	?	?

The sample of the received signal in time slot 6 is ...

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) -2

1 point

5) In Q-4, suppose that owing to error during transmission, the level at the receiver input produced in the time slot 4 is reduced to '0'. The receiver output in time slot 5 is ....

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) 1

1 point

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