

Examination Feedback for EEE317 – Principles of Communications
Spring Semester 2014-15

Feedback for EEE317 Session: 2014-2015

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

Question 1:

- a. Most common mistake is the explanation of PN code and spreading systems.
- b. Few students did not explain the channel coding correctly.
- c. Answered correctly by most students
- d. Few students derived the expression for the AM DSB SC instead of AM DSB LC.

Question 2:

- a. A common mistake here is explaining the principles of run length coding.
- b. Answered correctly by most students.
- c. Many student made common mistakes in combining the contributions from different branches in the system. Other students have just calculated the probabilities of error and correct transmissions.
- d. Answered correctly by most students.

Question 3:

- a. Many students made a mistake by explaining the operation of integrate and dump matched filter.
- b. Answered correctly by most students.
- c. Answered correctly by most students.
- d. The most common mistake is using $g(t)$ to work out the tap weights instead of $h(t)$.

Question 4:

- a. Many students have just listed one or two advantages.
- b. Most common mistake is in defining the length of the maximal length PN code. In addition, few students have presented examples of non-maximal length PN codes.
- c. Few students went wrong in performing the correct modulo-2 additions, and hence they got the wrong PN code.
- d. Answered correctly by most students, but few were mixed-up between orthogonal and non-orthogonal schemes.