Code:

*//Question 1*

Rb = 270.833;

Tb = 1/Rb;

disp(Tb);

B = 0.3/Tb;

disp(B);

Output:

0.0036923

81.2499

Code:

*//Question 2*

Rb = 270.833;

c = Rb/0.4;

disp(c);

b1 = 200;

snr = (2^(c/b1)) - 1;

disp(snr);

Output:

677.0825

9.4498657

Code:

*//Question 3*

b = 200;

Rb = 270.833

be = Rb/b

disp(be);

Output:

1.354165

Code:

*//Question 4*

bc = 1250;

rb = 9.6;

srmin = 3;

sumin\_ratio = 10^(srmin/10);

disp(sumin\_ratio);

mmax = (bc/rb)\*(1/sumin\_ratio);

disp(floor(mmax));

srmax = 9;

sumax\_ratio = 10^(srmax/10);

disp(sumax\_ratio);

mmin = (bc/rb)\*(1/sumax\_ratio);

disp(floor(mmin)) ;

Output:

1.9952623

65.

7.9432823

16.