

Communication Engineering (ECPC-205)

Test-I (21.09.2024)

(21.09.2024)

Q1. Differentiate between ~~(i)~~ analog and digital signals ~~(ii)~~ periodic and non-periodic signals  
~~(iii)~~ power and energy signals. (2×3)

Q2. (i) What do you understand by the term modulation? (ii) Draw the block diagram of a  
communication system. (2+2)

Q3. (i) Provide the names of analog to digital conversion schemes. (ii) Draw the block  
diagrams of PCM, DM and ADM (iii) Draw the frequency spectrum of  $s(t) = 24\sin(2\pi \times$   
 $75t)\sin(2\pi \times 1025t)$ . (iv) Draw a block diagram to recover the low frequency signal from  
the signal  $s(t) = 12\cos(2\pi \times 500t)\cos(2\pi \times 7000t)$  (1+4+2.5+2.5)