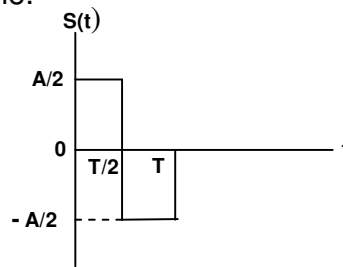


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Question No. 1 - 5 carries 3 marks each

1. A transmission line of characteristic impedance 50 ohm is terminated by a load resistance of 85 ohm. Find reflection coefficient and VSWR of the line.

2. Determine the impulse response of a matched filter to the signal $S(t)$, shown in figure below, and sketch it as a function of time and plot the matched filter output as a function of time.



3. There are 6 co-channel cells in a cellular system and path loss exponent is 3. Calculate the signal-to-interference ratio of the cellular system using frequency reuse factor of $1/12$.

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