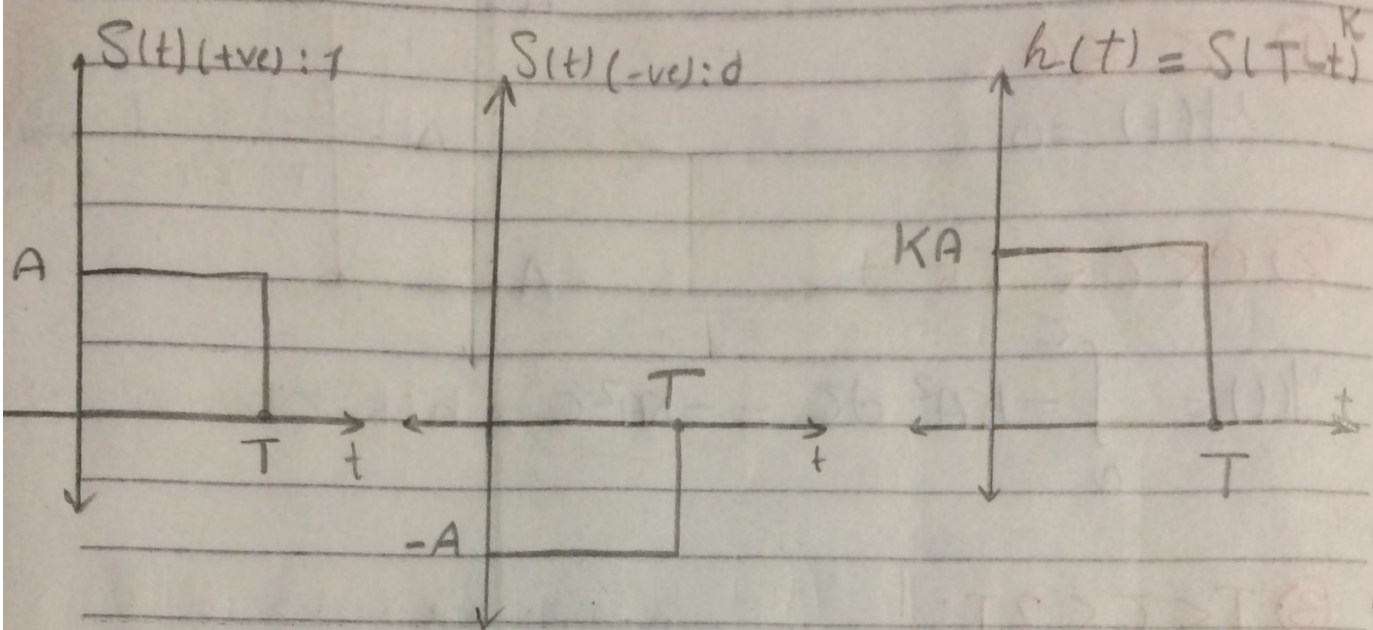
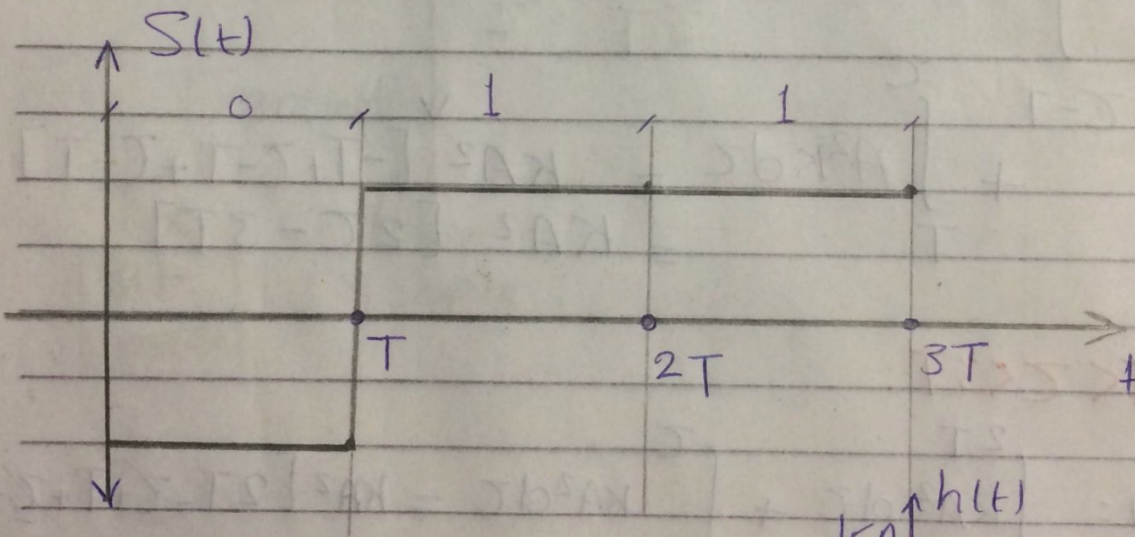
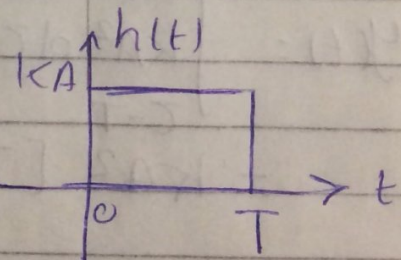


Prob 1 8-

④ $b: 0, 1, 1$



⑥ MF: $h(t) = K S(T-t)$



McRoda

①

2-T < 3T

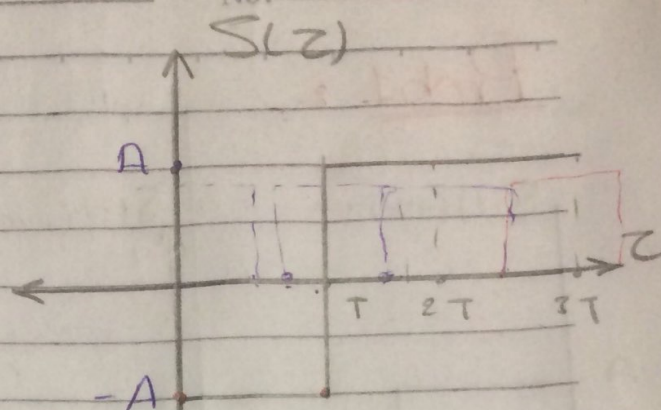
Date: _____ No: _____

(b)

$$y(t) = S(t) * h(t)$$

① $z \leq 0$:

$$y(t) = 0$$

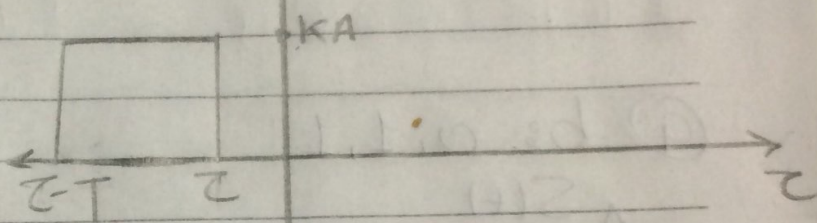


② $0 < z < T$:

$$y(t) = \int_0^z -KA^2 dz = -KA^2 z * h(t-z)$$

③ $T < z < 2T$:

$$y(t) = \int_{z-T}^T -KA^2 dz$$



$$+ \int_T^z KA^2 dz = KA^2 [-T + z - T + z - T] = KA^2 [2z - 3T]$$

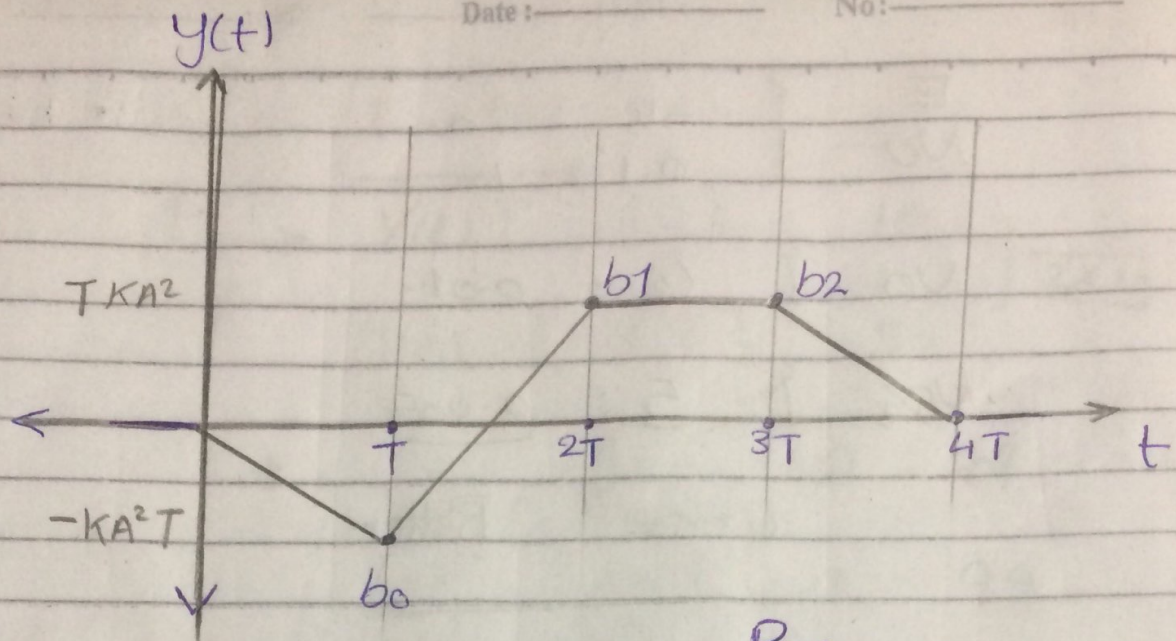
④ $2T < z < 3T$:

$$y(t) = \int_{z-T}^{2T} KA^2 dz + \int_{2T}^z KA^2 dz = KA^2 [2T - z + T + z - 2T] = KA^2 [T], \text{ fixed/const.}$$

⑤ $3T < z < 4T$:

$$y(t) = \int_{z-T}^{3T} KA^2 dz = KA^2 [3T - z + T] = KA^2 [-z + 4T]$$

⑥ $z > 4T$: $y(t) = 0$ #

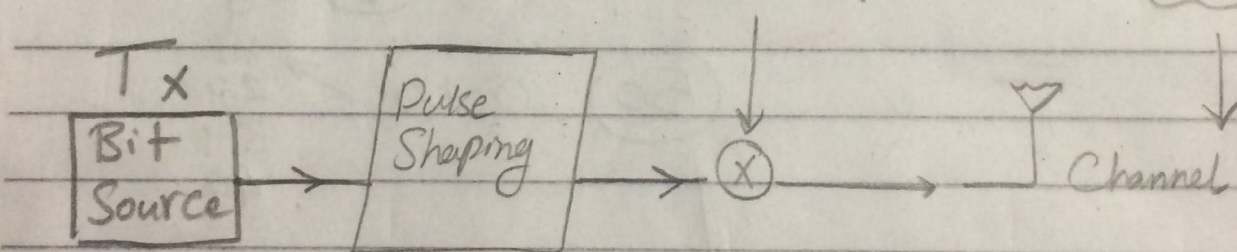


Peak

[C] b_0	Sampled at T	Value: $-KA^2T$
b_1	$\sim 2T$	Value: KA^2T
b_2	$\sim 3T$	Value: KA^2T

[D] Transmitter :- $\cos(2\pi f_c t)$

AWGN



Receiver :-

