Name : Purval Madhukar Bhude

Roll No. S20230010193

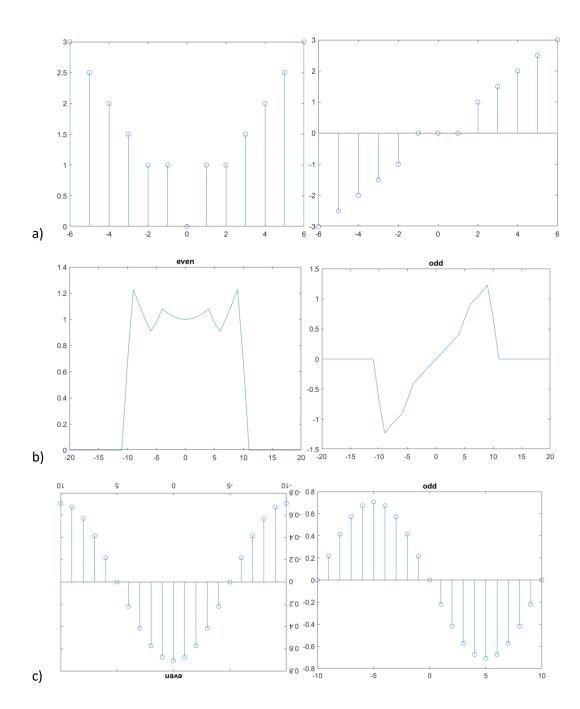
Subject: Signals and Systems

Assignment

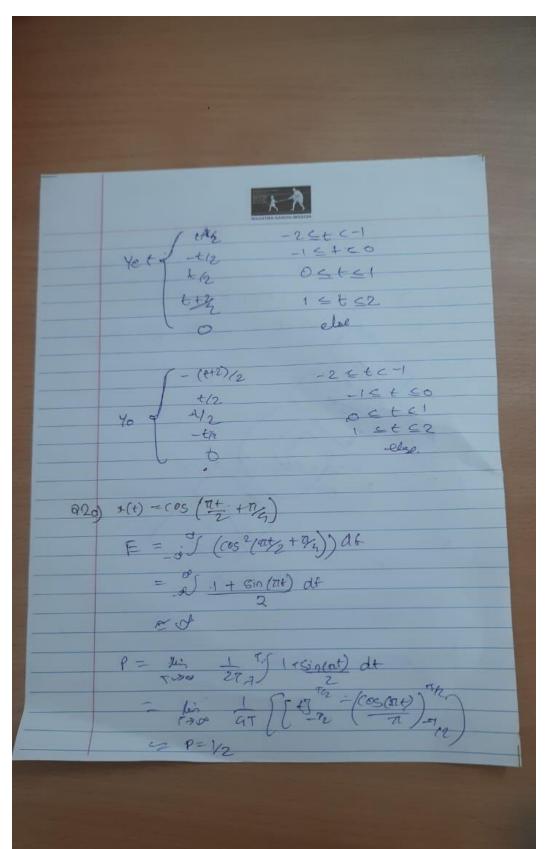
Question 1

| | MATERIAL GENERAL SPISSIFIE |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Nome: - Pureal Madhukut Bhude Roll no. 520 2300 10193 |
| - Q1 | x63 = {0,0,1,2,3,4,5,6} x[-h] = £6,5,4,3,2,1,2,13 |
| | x= Cn7x2= \$6,5,5,8,2,2,2,2,2,34,5,63 |
| Q2 · | $ \begin{array}{rcl} \text{Xe In } &=& -(3,512,412,312,212,10,712,312,42) \\ \text{Xe In } &=& -(49,519,-412,-312,212,10,0,0,212,42) \\ \text{Xe In } &=& -(49,519,-412,-312,212,10,0,0,212,42) \\ \text{Xe In } &=& -(49,519,-412,-312,212,10,0,0,212,42) \\ \text{Xe In } &=& -(49,519,-412,-412,0,212,0,0,0,212,42) \\ \text{Xe In } &=& -(49,519,-412,-412,0,212,0,0,0,212,42) \\ \text{Xe In } &=& -(49,519,-412,-412,0,212,0,0,0,212,42,42) \\ \text{Xe In } &=& -(49,519,-412,-412,0,212,0,0,0,0,212,42,42) \\ \text{Xe In } &=& -(49,519,-412,0,212,0,0,0,0,212,42,42) \\ \text{Xe In } &=& -(49,519,-412,0,212,0,0,0,0,212,42,42) \\ \text{Xe In } &=& -(49,519,-412,0,212,212,0,0,0,0,212,42,42) \\ \text{Xe In } &=& -(49,519,-412,0,212,212,0,0,0,0,212,42,214,212,212,212,212,212,212,212,$ |
| | Xern = e.0.10 (u(n+s) = u(n+10]) + c.0.1 (dirn+3-45-n-10) |
| | Xo[n] = e ⁰¹⁰ (μ(n+s) - μ(n+o)) + e ⁻⁰¹ (μ[-n+s]-μ[-n-10] 2 |
| Q3 | XEN] = (05 [0.1 Th + M/G) X[-h] = (05 [-0.1 Th + M/h) |
| | *ein3 = 2108 [7/4].cos[0.1717] |
| | 2 (05 [0.12n] 52 |
| | |
| | |

$$x_{s} = \frac{1}{2} = \frac{1}{2$$



Question 2



question a)

Energy: 9223372036854775807

Power: 0

question b)
Energy: 0
Power: 0

question c)
Energy: 100
Power: 1

question d)

Energy: 9223372036854775807

Power: 2