## Hssgmment-15

[18K4IAOSF4]

- 2) Pter = 1
- 3) Sample 21
- 4) gm = -(3.4-(1)(0.2)+1)(0.2) = -0.84 902-4-2
- 5) Em= (0,9)(0)+(0,1) (0,84) =0.0705 E(=(0,9)(0)+(0,1)(-4,2)=1.764
- 6)  $\Delta m = -0.1$  (-0.84) = 0.317  $\sqrt{0.07 + 10^{-8}}$

$$\Delta c^2 = 0.1$$
 $\sqrt{1.76+10^{-8}}(-4.2) = 0.3.22$ 

- 7) me m+Amel+ (0.314)=0.686 C= LFDC = -1-0.322= -1.322
- 8) Sample = Sample + )= |+ |=2
- 9) of (sample >Ms) =) 272 goto step4
- 10) 9w=-(3.8-(0.686)x(0.4)+1-322)x(0.4) = -1-93904

11) Eme 0.9×(0.0705) + (0.1) × (-1.93904) 2  
= 0.4394  

$$E_{c} = 0.9 \times (1.764) + (0.1) \times (-4.8476)^{2}$$
  
= 3.9375

12) 
$$\Delta m = -0.1$$
 $\sqrt{0.4394 + 10^{-8}} \times (-1.93904) = 0.2925$ 

$$\Delta (= -0.) \times (-4.8476) = 0.2442.$$

$$\sqrt{3.9375+10^{-8}}$$

17) 
$$g_{m} = -(3.4 - (0.9785 \times 0.2) + 1.0778) \times 0.2$$
  
=  $-0.85642$   
 $g_{c} = -4.2821$ 

$$E_{C} = (0.9 \times 3.9375) + (0.1) \times (-4.2821)^{2}$$

$$= 5.3773$$

19) 
$$\Delta m = -0.1$$
 $\sqrt{0.46957+10^{-8}} \times (0.85642) = 0.05868$ 

$$A (= -0.1) \times (-4.2821) = 0.18466$$

$$\sqrt{5.3773+10^{-8}} \times (-4.2821) = 0.18466$$

$$\sqrt{5.3773+10^{-8}} \times (-4.2821) = 0.18466$$
20)  $\Delta m = m + \Delta m = 0.9785 + 0.0586 = 1.0371$ 

$$C = (+\Delta C = -1.0778 + 0.18466 = -0.89314)$$
21)  $\Delta m = (3.8 - (1.0371 \times 0.4) + 0.89314) \times 0.4$ 

$$= -1.71132$$

$$9c = -4.2783$$
23)  $E_m = (0.9) \times (0.46957) + (0.1) \times (-1.71132)^2$ 

$$= 0.71547$$

$$E_C = (0.9) \times (5.3773) + (0.1) \times (-4.2783)^2$$

$$= 6.6699$$
24)  $\Delta m = -0.1 \times (-1.71132) = 0.2023$ 

$$\sqrt{0.71547110^{-8}} \times (-1.71132) = 0.16565$$

$$\sqrt{6.6699+10^{-8}}$$

25) me mtAmz 1.0371+0.20231=1-23941 cect Ac=-0.89314+0.16565=-0.7274.9 sample=2+1=37 no of Samples

27) Mer=761+1=3 > woofepochs 28) punt (m,1) =) (1.23941, -0.72749) 29) Mean Squared Edior unse = 1 [(3,4-(1,23941x0,2+0,72749))2+

 $2 \times 2$   $(3.4 - (1.23441 \times 0.42449))^{2}$   $(3.8 - (1.23441 \times 0.440.72749))^{2}$   $= \frac{1}{4} [15.05135 + 16.25481]$ 

mse= 7.82654