NAME :- MUHAMMAD ZEESHAN ALT ENROLLMENT :- 02-131212-080 C. NAME :- BSE 3B

QNO: 10.19 n = 38 p = 40 6 = 5.8 n = 64 d = 0.4

The Hypothosis are

Ho: Y = 40 months.

Hi: Y L 40 months.

Now, Z = 51-14

O/Vin

= 38-40
5.8/164

z = -2.76

P- Value = P(ZC - 2.76) = 0.029Dicision = reject.

## QNO .10.20

$$T = 0.24$$
  
 $R = 5.23$   
 $M = 64$   
 $M = 5.5$   
 $C = 0.05$   
The Hypothesis are  
 $C = 0.05$   
 $C = 0.05$ 

Now,

$$\overline{z} = \overline{x} - \underline{H}$$

$$z = 9.0$$
  
P value =  $P(z4-9.0)=0$ .

The while cheddar Popuoin, on average, weightless than 5.50.

QNO: 10:21

$$\bar{n} = 788$$
 $\bar{0} = 40$ 
 $\bar{1} = 800$ 
 $\bar{1} = 30$ 

The Hypotheris are

 $\bar{1} = 40$ 
 $\bar{1} = 800$ 
 $\bar{1} = 70$ 
 $\bar{1} = 70$ 
 $\bar{1} = 70$ 
 $\bar{1} = 70$ 

$$z = \frac{5i - 11}{5 / 5n}$$
 $= \frac{788 - 800}{40/30}$ 

$$QN0: 10:22$$
 $97 = 8.5$ 
 $11 = 8.25$ 
 $11 = 11225$ 

The Hypothesis are  $H_0: M = 8$   $H_1 = M > 8$ NOM. Z = 2 - M G/N n = 8.5 - 8  $2.25/\sqrt{2.25}$ 

= 3.33

P- value = P (Z > 3.83) = 0.009.

Decision seject Ho and conculude that color
are TM, on average mediato morto

8 kys per week.

QNO: 10.23

The Hypothesis one Ho: M = 10 H1: M = 10 Intial degion t = 3.2506 + 23.25compalation t = 10.06 - 100.246/10.

= 0.77 D'éssion fail to réjeil 40.

QNO: 10:24

 $\pi = 165.2$ . 6 = 6.9

1 = 162.5

= 50 The Hypothesis are Ho: \$1 = 162.5 cm

H: : YI 7 162.5cm

Noco

 $z = \bar{n} - H$   $8/\sqrt{n}.$ = 165.2 - 162.5 6.9/1/50

7 = 2.77. P-value = 2p(272-77) = 2(0.0028)= 0.0056

Dicision: aejul 40 and conclude that

QNO: 10:25 n = 23.500 8 = 3900 11 = 20,000 n = 100. The Hypothesis are. Ho: M = 20,000 km H, = M > 20,000 km. NOMI z = \(\bar{x} - 4\) = 23.500 - 20000 3900/100 P- Nalue = P(278.97) ~0 reject Ho and conclude that 1 >20000km QNO: 10:26  $\tilde{n} = 2ay$ 8 = 24.5 = 20 = 220 = 0.01 The Hypothesis are Ho = Y = 220mg H, = 41 > 220mg

critical region + >1.729 certalation: t = 229 - 220 24.5/1/20 t = 4.38. Reject to and clain 11 > 220 mg FS:01:011 The Hypothesis are Ho! = 41 - = 42  $SP = \frac{29(10.5)^2 + 29(10.2)^2}{58}$  SP = 10.35P = [2 > 34.0] = P(2>12.72) 20. RMP 15 Older Swomen. the conclusion the mean