9.4. a) Here the ropulation Nize in 25 and Miles

50) Sampainy interval H= = = = 6.25 = 6

Now 1-t=1-6 any rundom mumber 1-tins

Seleet nubann 5, 11, 17, 23

the state of the s
Serval 5/11/77/23/
Observation vulue 7779
Now 522 -1 [222 - (232)]
= \frac{1}{4-1} \left[228-\frac{200}{4}\right] = 1
VUM = TV-7 12 = 25-9
フレビアニー 100 ~0-21

ANU IL TV(I) = 5.21 = 0.4583 the estimate of standard ennor of population total in v(2) = 42 (V52) = 25 20.21= 131.28 and ju = Tran = 11.4569 b. Extinated the population of day which less hun grynd une recited. In our relegte Dample here are 3 rignal une len tren 8 30,01=3

10= -7 = -7 = -7 = 0.75

7.5. unit sainsite nondom sam pulsary method
the 5 rundom nubera une 11, 16, 9, 12, 10

ur don munper	11.	16	2	12	101
opser vation	1	8	2	0	4
	1	21	-+		1

the varionee or Gumple mean in voij =

IV-M KS2

19-9 Hardania magnina 2-10 all.

und n= Tucn = 1.67 = 1.292

the entranted of standard ennor of promum

10 V(T) = NANICIEI = 302 X1.67 = 1503 1503

und 50 = TV Cru = 1 1563 = 38.768

9.61 erven hat mergin of error d=0.1

The granula Direin greenby $n = \frac{2777}{42}$ $= \frac{(1.96)^{1/2} \times 0.95 \times 0.55}{(0.1)^{1/2}}$ $= 95.07 \approx 95$

2.7) Wint Simple Nandom rampling selected
11,16,7,12

NOW Paundom duys 11 16 9 12 7 45 7 45

Here 52 = - 1 [\(\frac{2}{2}\) \(\frac{2}{3}\) \(\frac{2}{3}\

He variance of sumple mean so $v_{cry} = \frac{N-n}{v_{cry}} \int_{v_{cry}}^{2} = \frac{23-4}{23\times 9} \times 339.67$ = 70.15

The number of estimate of mounds

I's arven but

monyin of d= 0.05

1)=6.3

V=0-7

Unk 2=1-76

The sumple size & n m given by $n = \frac{2^{n}y^{n}}{d^{2}}$ $= \frac{(1.76)^{2} \times 60.3 \times 67}{(0.65)^{2}}$ $= 322.69 \approx 323$