a) To find the percentage of Individuals with heights blt 160 cm & 180 cm

$$Z_1 = (160 - 170) / 10 = -1$$

for 180 cm Z2 = (180-170)/10 =1

(210.1-) & sweet 0.8413 - 0 11587 M

21003 X = 0.6826.

Approximately 68.26% & Individuals have heights between 160 cm and 180 cm. May

b). 100 Individuals - probablity that their height is greater than 175 cm.

S.D of Sample mean = 
$$\frac{6}{\sqrt{n}} = \frac{10}{\sqrt{100}} = 1$$
.

$$Z = (175 - 170)/1$$

$$Z = 5$$

$$Z = 5$$

$$Z > 5 \approx 0$$

Probablity of Individuals height greater Than 1750 & normally furtilisated.

() I score of height 185 cm Z = x - 14/3 = 185 - 170/10 = 15/10 = 1.5 = 5000 = 15 height 185 G 1.5

d) Approximate height corresponding to 5%.

By using I table the value is (-1.645)

2) Height corresponding to I score

Z = (x - M)/6 081 pas and 031 discourse

 $-1.645 = \chi - 170$ 

- 16.45 = x-170

7 = 153.58

e) Co-efficient of vowation for the dataset

$$E.V = (8/H) \times 100$$
  
=  $\frac{10}{170} \times 100 = \frac{100}{17} = 5.83$ 

f) Given that skewness is zero, so the datuset is normally distributed.