deviation about mean is 2.

Mean, m=1

PD
$$\rho$$
 $P(x) = \frac{e^{-m} m^{x}}{x!}, x = 0, i, \dots$

$$=\frac{e^{-1}}{x!}$$

man deviation,
$$E(|x-1|) = \sum_{x=0}^{\infty} |x-1| \cdot \frac{e^{-1}}{x!}$$

 $= e^{-1} + o + \sum_{x=2}^{\infty} (x-1) \cdot \frac{e^{-1}}{x!}$
 $= e^{-1} + e^{-1} \sum_{x=2}^{\infty} \frac{(x-1)}{x!}$
 $= e^{-1} \int_{x=2}^{\infty} \left(\frac{x}{x!} - \frac{1}{x!} \right) \frac{1}{x!}$

$$= e^{-1} \int_{x=2}^{1+\infty} \left(\frac{1}{(x-1)!} - \frac{1}{x!} \right)$$

End sample of loss cases, the mean of a certain test is 14 and standard deviation is 2.5. Assuming the distribution to be normal, find

(i)
$$\overline{z}_1 = \frac{\chi - M}{\Gamma} = \frac{12 - 14}{2.5} = -0.8$$

$$Z_2 = \frac{15-14}{2-5} = 0-4$$

(ii)
$$Z = \frac{18-14}{2.5} = \frac{4}{2.5} = 1.6$$

$$P(X>18) = P(Z>1.6)$$

$$= 0.5 - P(0 \le Z \le 1.6)$$

$$\therefore \text{ Symmetrical lity is little probability in the right hand side is considered.}$$

orz

Find the area under normal curve.

a) to the left of z = -1.78b) to the left of z = 0.56

to the sight of Z = -1.45

(a)
$$P(Z < 0 - 1.78)$$

= $0.5 - \text{Area of } (0 + 0 - 1.78)$
= $0.5 - \text{...} P(-1.78 \le Z \le 0)$
= $0.5 - \text{...} P(-1.78 \le Z \le 0)$
half curve is 0.5
area under

= $0.5 - 9.(0 \le z \le 1.78)$ (curve is symmetrical)

$$P(Z < 0.56) = 0.5 + P(0 \le Z \le 0.56)$$

= $0.5 + 0.2123$
(from table)
= 0.7123 .

Find first three moments of Dinomia distribution. Find first three central moments of ward timements of the timement distribution. [Find u, uz, we'de