1). Predicting Call center Horkload-

Dobust

· No. of calls per hour (Discuete Distribution):

X ~ Poisson (7=20 calls/hour)

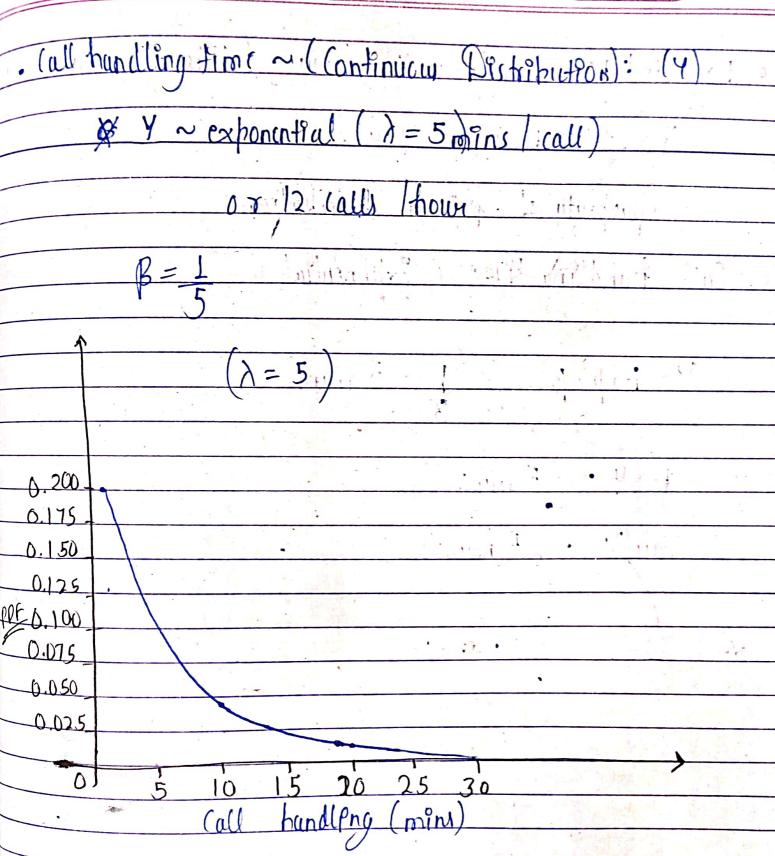
 $(\lambda = 20)$ 

0.08

0

10 20 30 40 50 60

No. of calls (K)



Imby

Culculate expected total call Handling time purhous

· he.c. call per how (2), 1=20

· Call handling time

E ( )= 5 min

· total call handling timein anhour.

= 20.5 = 100 mins per hour

howing call handling 49mm inevery hows.

• 
$$E(X) = 20$$
,  $V_{QH}(X) = 20$   
•  $E(Y) = 5$ ,  $V_{QH}(Y) = 25$ 

$$= 20 \times 25 + 125 \times 20$$

$$= 1000 \text{ min}^2$$