CHID : 50321021

Question-13: As per the given data Number of cylinder in a disk = 10000

> Number tracks per cylinders = 4 Number of Sectors per track = 2048

According to given information

Rotation time between cylindes = 10 msec

Seeking time between cylinders = 1 mser.

Worst Case time = 20 mxec

Total Seek time = Number of cylenders (seek time cylender) -1
= 10000-1 = 9999 mser.

Total Rotational temo given as = 20 m/sec

In Wout Case = sotation time between cylinders \* no. of cylinders \* tracks per cylinders

= (10 \* 1000×4) +00

Therefore, the total time to sead 10,000 cylinders = (10000 -1) + (110×10000×4) +20)

Total teme to read 10,000 Cylenders
= 9999 + 400000 + 20
= 410019 msec.