- (7) A multipath jading channel has a multi-path of Tm = 15 and a doppler spread Bd = 0.01 Hz. The total channel bandwidth at band pan available for signal transmission is w = 5 Hz. To reduce the effects of intersymbol interference, the signal designer selects a pulse duration Tz 10 Sec. find,
- (a) Determine the Coherence bandwidth and the

: Tm = 15

(6) Is the channel frequency selectives explain

· Signal B.W. (W) = 5 Hz is much > coherence BW,

(C) Is the channel fading slowly [rapidly? explain

Hue signed duration, 10 sec is much smaller than the coherence time, 100 sec

- (8) A multipath fading channel has a Multipath

 Spread of Tm ? 2 Sec, and a Doppler Spread Bd =

 0.0 4 ttz. The total channel Bw at bound pass available
 for Signal francoission is w = 5 ttz. To reduce the

 effects of into Symbol into Jerance, the Signal designed

 Solicte a pulse duration of T = 20 Sec. find,
- (a) Determine the Coherence boudwidth and the

- (b) Is the channel frequency selection? explain
 - ": Signal B.W W= 5Hz is much > Cohesence BW, 0.5 Hz
- (c) Is the channel fading slowly sapidly? explain
 7 slowly.
 . the signal duration, 20 Sec is much smaller than the Coheunce Time, 25 sec