

$$P_{1}^{2} \times 2f = ?$$

$$= 1 - P_{2}^{2} \times 2f$$

$$= 1 - P_{2}^{2} \times 2f$$

$$= 1 - P_{3}^{2} \times 2f$$

$$= 0.45$$

$$P_{0} = 0.45$$

$$P_{1} = 2 \times (1 - P)$$

$$P_{2} = 2 \times (1 - P)^{2}$$

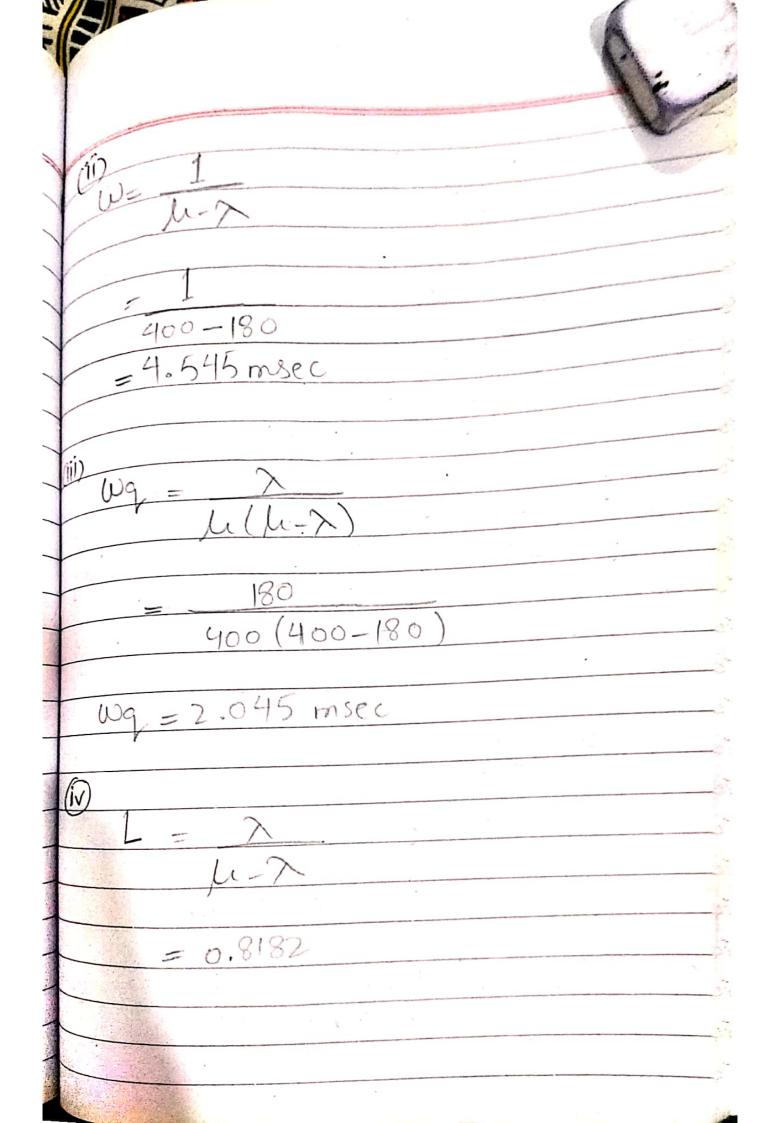
$$P_{2} = 2 \times (1 - P)^{2}$$

$$P_{3} = 2 \times 2f$$

$$= 1 - P_{3}^{2} \times 2f$$

$$= 1 - P_{3}^{2} \times 2f$$

$$= 0.1413$$



$$= 0.3682$$

$$= (4.545 \times 10^{-3}) \times (n / 100 \times 0.45)$$

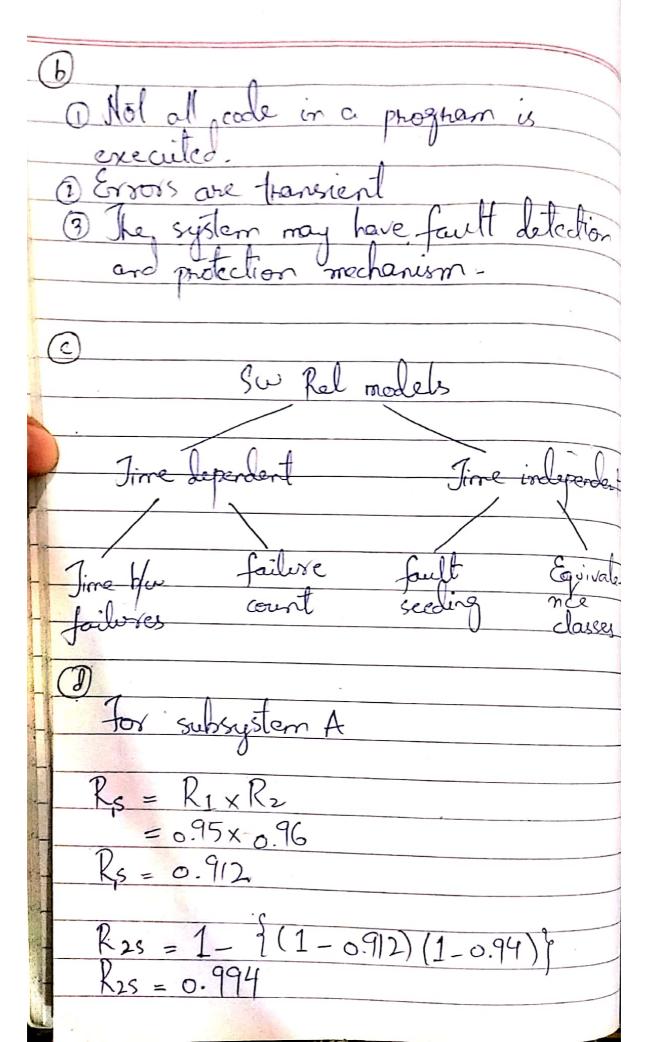
ZIM

Question #04

(a)
$$\lambda = \frac{12}{5} = \frac{2.4}{\text{min}}$$

$$=\frac{2.4}{60}=0.04$$
 sec

MIL 2 = 3-136 = 19.5 = 0.05/2 per sec = (b-a 90.75 (0.04)2 0.0512(0.0512-0.04 9 = 2.790



M

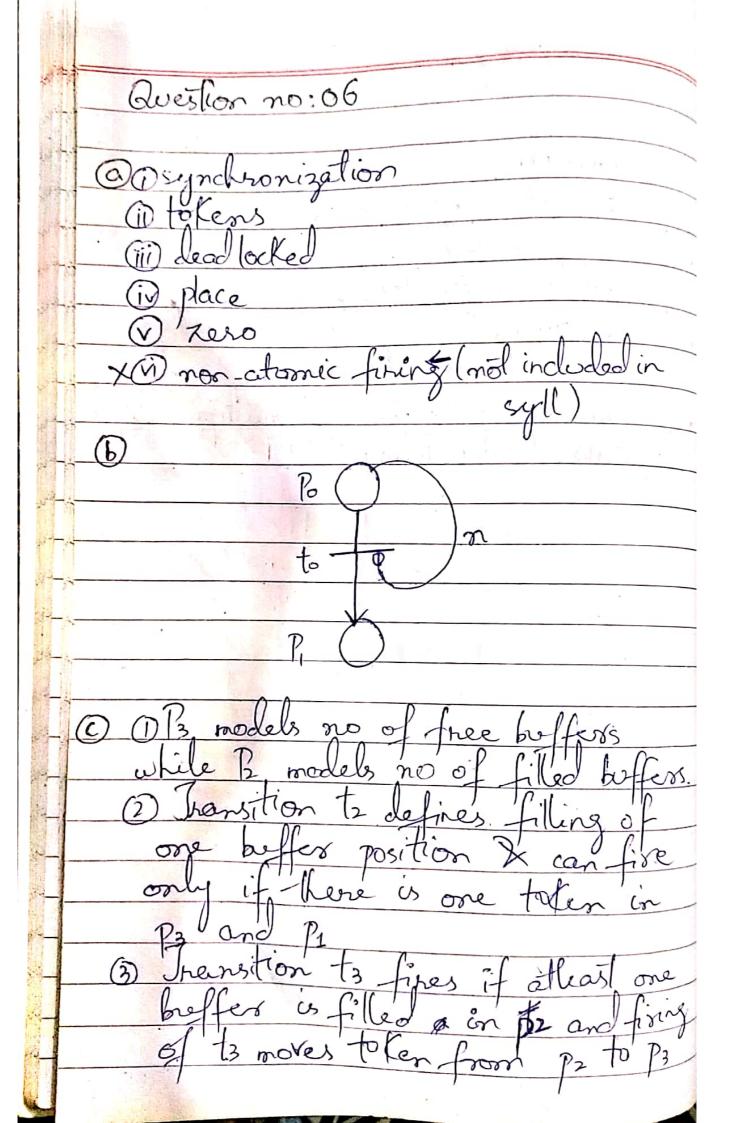
Jos subsystem B 2-out-of-3 3CK (0.98) (1-0.98) $C_{2}(0.98)^{2}(1-0.98) + {}^{3}C_{3}(0.98)$ R35=0.9989 Rs = R25 x R35 Rs(t) = 0.994 x0.9989 Rs(t) = 0.9929 Question#5 3 x0.3 - 4 x0.35 - 2 x0.35 40 50 R=0.9355 or 93.55%.

X/A/Y

Trace means time ordered heroids.

of events on head systems.

Purpose -> generally used for ordering herover management algos. (b) eg Paging algos, CPU of school al DL prevention algos. 0 Not included in our syllabus 3 msec 3msec X = 333.33 Sec RI = 0.1765, R2 = 0.4097, R3 = 0.9132 t1= ln (1-Ri) = 583 msec t2 = (n(1-R2) = 1582 msec t3 = ln (1-R3) = 7339 msec



= Initial marking $(t_1 \rightarrow t_2 \rightarrow t_3 \rightarrow t_4 \rightarrow t_1 \rightarrow t_2)$ P2. 0 0 0

$$e_{1} = 1000$$
 $e_{2} = 0100$
 $e_{3} = 0010$
 $e_{4} = 1000$
 $e_{1} = 1000$
 $e_{2} = 0100$
 $e_{3} = 0010$
 $e_{3} = 010$
 $e_{3} = 010$

$$XD = 0 - 2 + 0 + 1 = -1$$

= $0 + 2 + 0 - 1 = 1$
= $2 + 0 - 2 + 0 = 0$

$$M = 100$$
 $XD = -110$
 $M' = 010$