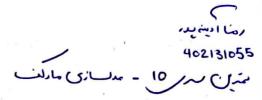
بنام دما



10 Ju

PA (1+DE) = PA(E) (1-(3)DE(1-c)+3)DE) عال (2)) 2 x st PB(trot) = PB(t) (1-2 x st) + PA(t) (3 x st.C) Pr(6+At) = Pr(6) + PB(6) (2 x At) $P_{A(L)} = -6\lambda P_{A(L)} + 3c\lambda P_{A(L)}$ $P_{B(L)} = -6\lambda P_{A(L)} + 3c\lambda P_{A(L)}$ $P_{B(L)} = -2\lambda P_{B(L)} + 3\lambda C P_{A(L)}$ SPE(S) = ZXPB(S) (III) Pr(t) = 2xPB(t) (I): SPA(S)+62PA(S)-3C2PA(S)=1 => PA(S) (S+6)-3C2)=1 => PA(S)= 1 = (II): $SP_{B(S)} + 2\lambda P_{B(S)} = \frac{3\lambda C}{S + (6-3C)\lambda} \Rightarrow P_{B(S)} = \frac{3\lambda C}{(S+2\lambda)(S+(6-3C)\lambda)} = \frac{A}{S+2\lambda} + \frac{13}{S+(6-3C)\lambda}$ A = (5+2x) PB(S) = 3C 4-3C (B= (5+(6-3c))) | (S=-(6-3c)) = 3C -4+3C $\Rightarrow \frac{3c}{4-3c} + \frac{3c}{-4+3c} + \frac{L}{5+(6-3c)\lambda} \xrightarrow{P_{B(t)} = \frac{3c}{4-3c}} e + \frac{3c}{-4+3c} e$ $P_{A(t)} = e^{-(6-3c)\lambda t}$ => $R_{(t)} = P_{A(t)} + P_{B(t)} = e^{-(6-3c)\lambda t} + \frac{3c}{4-3c} + \frac{3c}{-4+3c} = e^{-(6-3c)\lambda t}$ MTTF= $\int_{-4.30}^{\infty} R(t) dt = \int_{-4.30}^{\infty} \frac{-(6-3c)\lambda t}{4} dt + \int_{-4.30}^{\infty} \frac{3c}{4} \frac{3c}{4} \int_{-4.30}^{\infty} \frac{-(6-3c)\lambda t}{4} dt$ $= \frac{1}{\lambda(-3c+6)} + \left[\frac{3c}{-4+3c} \times \frac{1}{\lambda(-3c+6)} \right] + \left[\frac{3c}{4-3c} \times \frac{1}{2\lambda} \right]$

سعال (4) PA (L+Dt) = PA(E) (1-325t) 1-3 1 1t PB (L+St) = PB(+) (1-2256) + PA(+) · (3256) PES (++st) = PES(E) + POLE). (2CXSE) Pro(++st) = Pro(+) + Pro(+) (2x(1-c)st) (1-c)2x5t) Palt) = - 32 Palt) SPA(5) - PA(0) = -32 PA(5) (I) Pact) = -2 × Pact) + 3× Pact) L SPacs) = -2× Pacs) +3× Pacs) PFS (4) = 2CX PB(4) SPES(5) - PES(6) = 2C & PB(5) (III) PFULL) = 2 x (1-c) PB(+) SPFU (S) - PFU (0) = 2 x (1-c) PB (S) (IV) (I): $SP_{A(S)} + 3\lambda P_{A(S)} = 1 \longrightarrow P_{A(S)} \left(S + 3\lambda\right) = 1 \longrightarrow P_{A(S)} = \frac{1}{S + 3\lambda} \stackrel{P^{-1}}{\longleftrightarrow} P_{A(E)} = \frac{1}{S + 3\lambda}$ $= P_{B(S)} = \frac{\frac{3\lambda}{5+3\lambda}}{5+2\lambda} = \frac{3\lambda}{(5+3\lambda)(5+2\lambda)} = \frac{A}{5+3\lambda} + \frac{B}{5+2\lambda}$ $\begin{cases} A = (5+3\lambda) P_{B(5)} \Big|_{5=-3\lambda} = \frac{3\lambda}{-3\lambda+2\lambda} = -3 \end{cases}$ $\begin{cases} A = (s+3\lambda) | P_{B(s)} | \\ S = -3\lambda = \frac{3\lambda}{-3\lambda + 2\lambda} = -3 \end{cases} = \times P_{B(s)} : \frac{-3}{s+3\lambda} + \frac{3}{s+2\lambda} \longrightarrow P_{B(t)} : -3\ell + 3\ell \longrightarrow P_{B(t)} : -3\ell + 3\ell$ (III): $SP_{fs}(s) = 2C\lambda \cdot \frac{3\lambda}{(s+3\lambda)(s+2\lambda)}$ => $P_{FS}(S) = \frac{6c\lambda^2}{S(S+3\lambda)(S+2\lambda)} = \frac{A}{S} + \frac{13}{S+3\lambda} + \frac{C}{S+2\lambda}$ $A = S P_{FS}(S) \Big|_{S=0} = \frac{6c\lambda^2}{3(1.2)} = \frac{6c\lambda^2}{(1.2)^2} = C$ $B = (5+3\lambda) P_{FS}(5) = \frac{6c\lambda^2}{-5\lambda} = \frac{6c\lambda^2}{3\lambda^2} = 2C$ C= (S+A) PFS (5) | S=-21 = 6C12 = 6C12 = -3C => $P_{FS}(s) = \frac{C}{S} + \frac{2C}{S+3\lambda} + \frac{-3C}{S+2\lambda}$ $\stackrel{-3C}{\longrightarrow} P_{FS}(t) = C + 2CC - 3CC$ => S(t): PA(t) + PB(t) + PFS(t) = e - 3e + 3e + c + 2ce - 3ce = (\$-2+2c)e + (3-3c)e + c

