

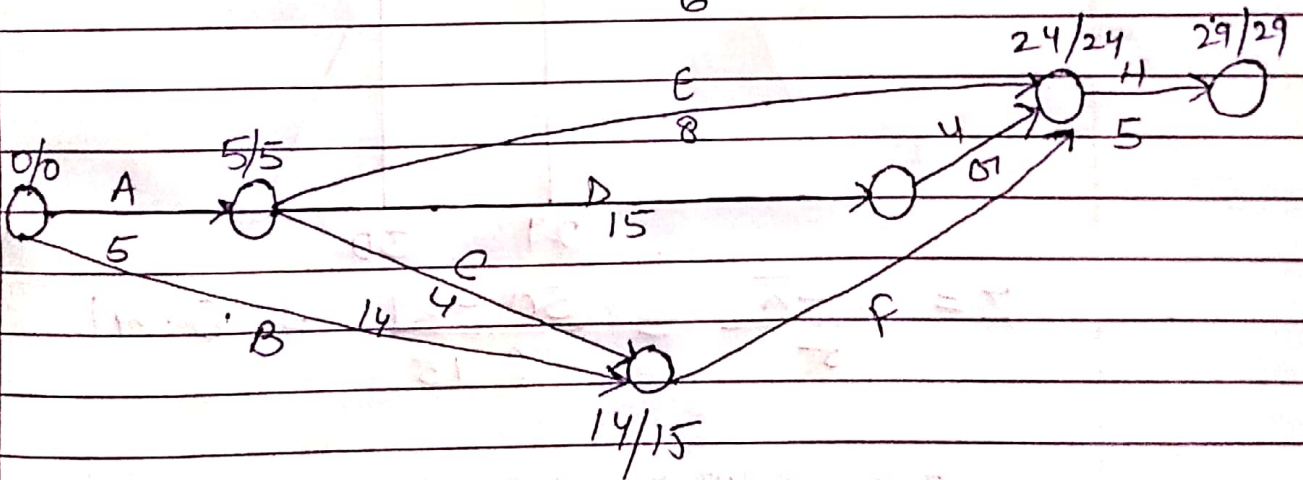
Subject

Q6  
Ans

Weeks

Task	P.A	To	Tm	Tp	Tc	Variance
A	-	2	4	12	5	25/9
B	-	10	12	26	14	64/9
C	A	8	9	10	9	1/9
D	A	10	15	20	15	25/9
E	A	7	7.5	11	8	4/9
F	B, C	9	9	9	9	0
G	D	3	3.5	7	4	4/9
H	E, F, G	5	5	5	5	0

Expected =  $T_e = \frac{T_p + 4T_m + T_o}{6}$



Critical Path : A - D - G - H

Variance =  $\left(\frac{T_p - T_o}{6}\right)^2$

Subject \_\_\_\_\_

Variance of critical path  $\rightarrow$

$$\Rightarrow \frac{54}{9} = 6$$

Variance = 6

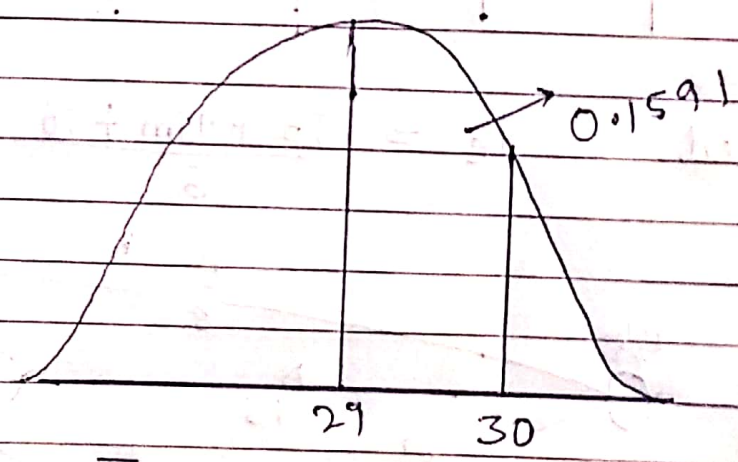
$$\sigma = \sqrt{6} = 2.4$$

(b)

Solution Total Project Duration = 29 weeks

(c)

sol



$$Z = \frac{x - \bar{x}}{\sigma} = \frac{30 - 29}{2.45} = 0.41$$

$$Z = 0.408 \approx 0.41$$

Table value = 0.1591

Probability of Project Completion within 30 weeks =

$$0.5 + 0.1591 = 0.6591$$