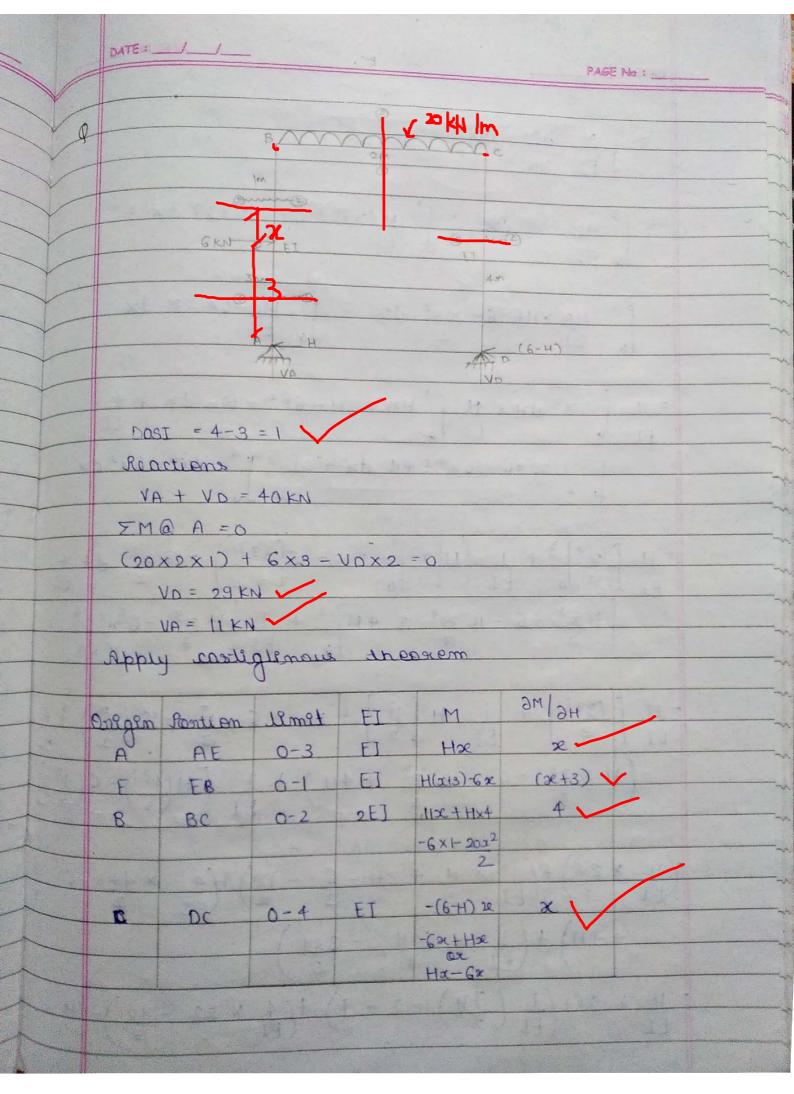


PASE No : \_\_\_  $= \int_{0}^{4} - Hx(-x) dx + \int_{0}^{1} 80x - 4H(-4) dx + \int_{0}^{4} - Hx(-x) dx$   $= \int_{0}^{4} - Hx(-x) dx + \int_{0}^{4} - Hx(-x) dx$   $= \int_{0}^{4} - Hx(-x) dx + \int_{0}^{4} - Hx(-x) dx$   $= \int_{0}^{4} - Hx(-x) dx + \int_{0}^{4} - Hx(-x) dx$ + 1 [-160 x2 + 16 Hx] 2 FT 2 = H 64 -320 + 16H + 64H T 160X4 + 16H (2) EI 3 2EI EI 3EI 2EI EI = 64H + 64H - 320 - 326 + 32H + 16H 3EI 3EI 2EI EI EI EI = 90.67 H. - 480 FI 90.67 H = 480 EL FI H = 480 9067

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H = 5.29  m
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Chief The Control of the Chief Chief
BMB = -HA.X
= 5.29 x4
=-21.16 KN-m
BMc = -HA & = -5.29 x 4 = -21.16 KN-m
D.M.
BMD=0
BMF = 40x - H4
$= 40 \times 1 - 5.29 \times 4$
= 58.84 kN-m
121 + Hear 21.16 0 00 21.16 HAZ-1 11+3.
21.16
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DATE : \_\_\_\_\_\_ + 1 × 21.33 H - 128 = 9H + 3.5H -11 + 88 - 32.66 +4H + 21-33H = 9H + 3-5H + 4H + 21-33H - 83.66 = 37-83H-83.66 11 = 2.98 kN BMD @ B = + GKNM C = +-12 KN-m I Analyzed the gener partal grame as shown en fig and det exmine the redudant eratios, plat the BMD using strain energy bartem

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= \frac{1}{EI} \left[ \frac{\alpha^{2}}{2} \right]^{4} + \frac{1}{2} \left[ \frac{40 \times \alpha^{2}}{2} + 4H - 20 \times \frac{23}{3} \right]^{4} \times 4
= \frac{1}{EI} \left[ \frac{-40 \times 23}{3} + H \times \frac{3}{3} \right]^{4} \times \frac{2}{3} \int_{0}^{4} dx
= \frac{1}{EI} \left[ \frac{-40 \times 23}{3} + H \times \frac{3}{3} \right]^{4} \times \frac{2}{3} \int_{0}^{4} dx
    = H \begin{bmatrix} 4^{2} \\ 2 \end{bmatrix} + \frac{1}{EI} \begin{bmatrix} 40 \times 4^{2} + 4H - 26 \times 4^{3} \\ 2 \end{bmatrix} \times 4^{2} 
 = H \begin{bmatrix} 4^{2} \\ 2 \end{bmatrix} + \frac{1}{EI} \begin{bmatrix} 40 \times 4^{2} + 4H - 26 \times 4^{3} \\ 2 \end{bmatrix} \times 4^{2} 
                           + 1 \left(-40 \times \frac{4^3}{3} + H \frac{4^3}{3}\right)
     8H + 1 [40 \times 8 + 4H - 20 \times 21.33] 2+ 1
EI EI (-40 \times 21.33 + 21.33 H)
x = 8H + 1 [ \$ + 0 + 32H - 853.2] + 1 (-18.67 + EI EI 21.33H)
 x=8H+640+8H-853.2-18.67+21.33H
   = 91-33H + 640 + 32H -853-33 - 853-33 +21-33H
E2 EI EI EI EI EI EI
   = 74.66 H -1066.66
EZ EI
     H=14-99
       BM@ A = 0
       BM@ D = O
        BM@ B = 57.12 KN-m
        BM@ C = 102.8 KN-m
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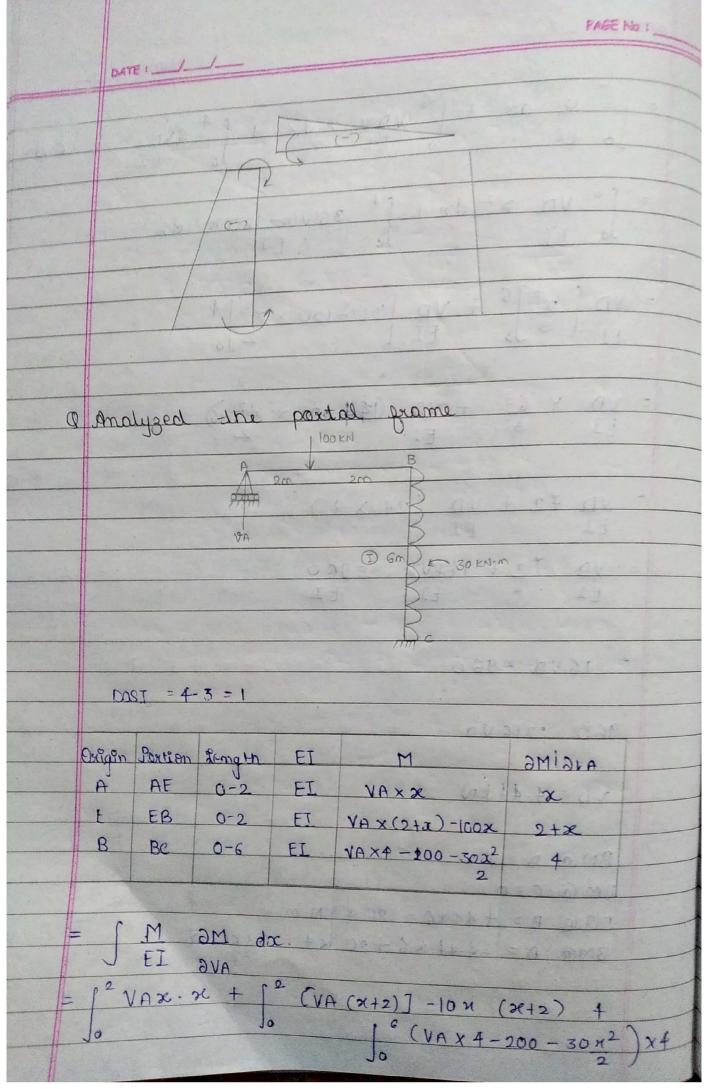
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= 
$$VD \left[ \frac{3}{3} \right]^{6} + VD \left[ \frac{36x^{4}}{120} \times \frac{x^{2}}{2} \right]^{4}$$
  
El 3 0 El 2 0

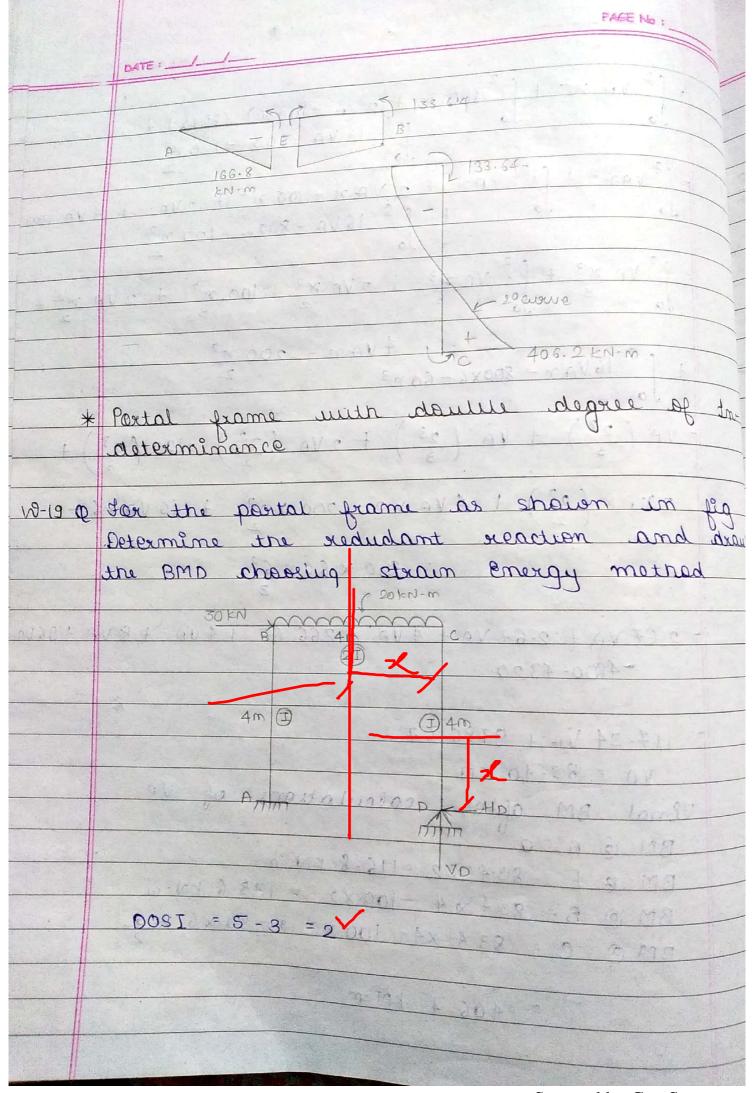
= 
$$VD \times G^3 + VD (144 \cdot 20 \times 4^2 \times 6)$$
  
EI 3 EI 2

$$= VD 72 + VD (24 \times 8)$$
  
EI EI



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 $= \int_{0}^{2} VA x^{2} + \int_{0}^{2} (VAx + 2VA - 100n) (x + 2) + \int_{0}^{6} 16 VA - 800 - 120 x^{2}$   $= \int_{0}^{2} VAx^{2} + \int_{0}^{2} VAx^{2} + 2 VAx - 100 x^{2} + 2 VAx + 4 VA - 200n$   $= \int_{0}^{6} 16 VA - 800x - 120 x^{2}$  $= \int_{0}^{2} VA x^{3} + \int_{0}^{2} VA x^{3} + 2VA x^{2} - 100 x^{3} + 2VA x^{2} + 100 x^{3} + 2VA x^{2} + 100 x^{3} + 100 x^{3} + 100 x^{2} + 100 x^{2} + 100 x^{3} + 100 x^{2} + 100 x^{2$  $4 VAN - 200 N^2$   $+ \int_{0}^{6} 16 VAN - 800 \times 6 - 60 N^3$  $= VA\left(\frac{2^3}{3}\right) + VA\left(\frac{2^3}{3}\right) + 2VA\left(\frac{2^2}{3}\right) - 100\left(\frac{2^3}{3}\right) +$ 2 VAX (22) + AVAX2 - 200 X22 + 16 VAX6 -860 × 60 × 63 = 2.67 VA + 2.67 VA + 4 VA - 266.67 + 4 VA + 8 VA + 96 VA -4820-4320 = 117.34 VA + 9786.67 : VA = 83.40 KN av jo emulables restor ME landt BM @ A = 0 BM @ F = 83.4 X2 = 116.8 KN-m BM @ B = 83:4 x 4 - 100 x2 = 133.6 KN-m BM @ C = 83.4 x4- 100 x2 \$-30 x6 x 6 = -406.4 KN-m



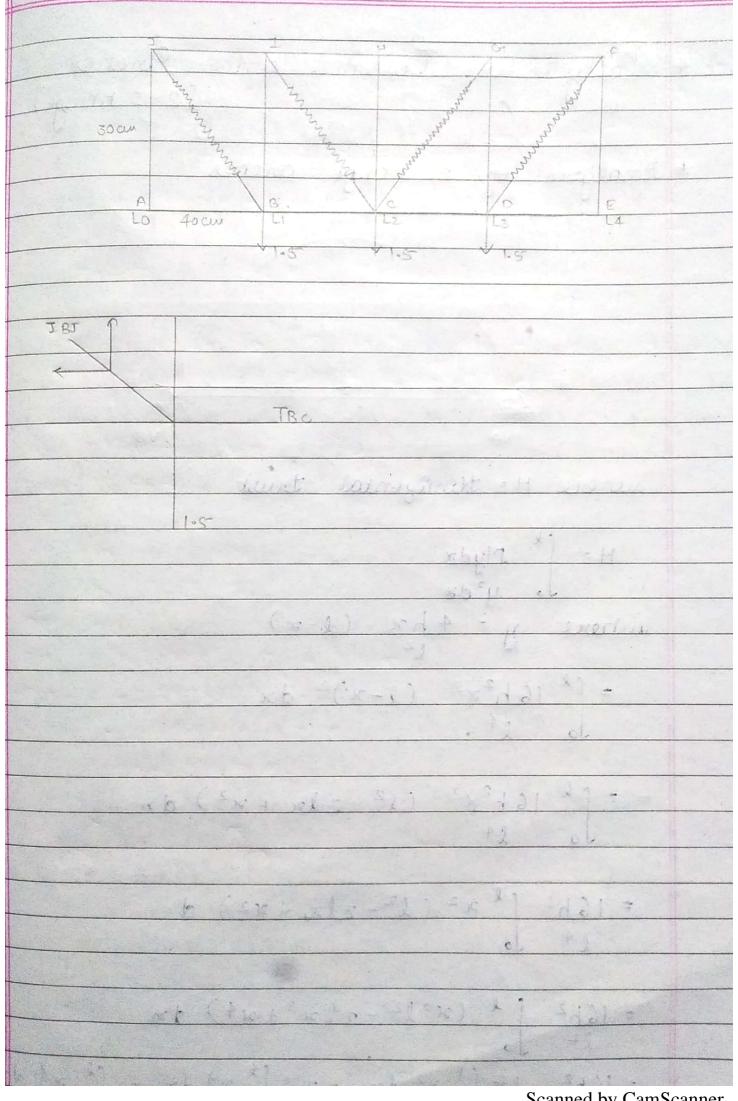
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BMn = 0
         Brie = 10.085 41 = 40 34 EN . m
        BM8 = - 57.5-x4 + 20x4 x2 = - 71.0 = N-4
         BMA = 80 44+ 10.085 xf = 160.34 kN m
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   HOX43 + 16 HOX4 - 4 VD X42 + 40 X43 - 4 110 X42 1
    HDX 43 + 4 VD X 42 -30×43 - 160×42 + 16 HD X4 - 4 HDXA
    -16 VDX4 + 120 X42 + 640 X4
    21.33 HD + 32 HD - 16 VD + 426.67 - 32 HD + 21.33 HD
   + 32 VD - 640-1280 + 64HD - 32 HD - 64 1/D + 960+2560
     74.66 HD - 48 VD = -2026.67 -(1)
    [ M am dac
= 1 + (-4 HD + VD or -10 M2) - X x + f + (-4 HD+ HDm + 4 VD
         -30x-160) x 4
= 1 + -4Hpn + Vpn2 - 10x3 + 5 + -16 Hp + 4Hpn + 16 Vp

-120 m -640
= \int_{0}^{4} -4 \, HD \times n^{2} + VD \times n^{3} = 10 \, n^{4} + \int_{0}^{4} -16 \, HDn + 4 \, HDn^{2}
= 2 \quad 2 \quad 3 \quad 2 \times 4 \quad \int_{0}^{4} -16 \, HDn + 4 \, HDn^{2}
             +16VDN - 120 M<sup>2</sup> -640 M
= -4 HD \left(\frac{4^2}{2x^2}\right) + VD \left(\frac{4^3}{2x^3}\right) - 10 \left(\frac{4}{2}\right)^4 - 16 HD \times 4 + 4 HD \left(\frac{4^2}{2}\right)
  + 16 VD X 4 - 120 X 42 - 640 X 4
 -16HD+ 10.67 VD- 320 -64 HD + 32 HD +64 VD-960
  081-1800 08 - COVI - - 2560 COVIV-
  = -48 HD + 74.67 VD = +3840
  = 48 HD - 74.67 VD = -3840 -(2)
        :. HD = 10.085 KN
        VD= 57-9 KN
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DATE: PAGE No :  $+40 \pi^2 - 4 Ho \pi^2 + Ho \pi^3 + 4 Vo \pi^2 - 10 \pi^3$ HDX 43 + 16 HDX4 - 4 VD X42 + 16 HDX3 - 4 HD X 32  $\frac{-16VD\times3+40\times3^2-74HD\times3^2+HD\times3^3+4VD\times3^2-10\times3}{2}$ 21.33 HD + 64 HD - 32 VD + 48 HD -18 HD -48 VD + 180 - 18 HD + 9 HD + 18 VD - 90 106.33 Hp - 62 Vp = -90 -106.33 Hp + 62 Vp = 90 -(2) MD = 1-38 KN // ND = 3.84 KN BMc = 1.38 x 4 = 5.56 kN-m BMB=1-3.84 x4+ 1.38 x4= -9.82 KN-m BMA = -3.84 X4 + 1.38 X4 + 10 x3 = 20.02 KN-min la mont 10 OTRA LANGUEST TOPO - 4



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