Electric Potential: Paper - 01 Ams to Q. No-2 As the displacement and centripital source are perpendicular to each other therefore morek done, W = Fd cos 90° >W = 0/1 Hns to Q. No - 3 ". WAtoB = 9. (VB-VA)-0 Where, 9.= 5 MC = 5×106C Charge of an electrion, %= $V_A = 9 \times 10^9 \times \frac{9}{H_A}$ VB = 9x109 - 4 = 9x109 5x10 $= 9 \times 10^{9} \times \frac{5 \times 10^{-6}}{5 \times 10^{-6}}$ = 9 × 10 × ... WA - B = 9. (VB-Yn) = 1.6×10-9 (9×103-9×103)

thus to 9 No. 4 Here, q = 8 MC = 8 X 10 6 C 8019) 90 = -2nc = -2×10°C A+ (12m, 5m); B+ (3m, 4m); C-(5m,5m) .. WA+B= 9. VB-VA - (1) NB = 9x 109 - 48 VA = 9x10 TA = 94109 - 5 $= 9 \times 10^9 - 8 \times 10^{-6}$ = 14.4 × 10 (D) WATB = -2×109 [14.4×103 - 5.53 × 103 = -2x109 [14.4-5.53] 103 = -17.74 × 10-4 = -1.77 x 10-6 J AnstogNo-5 Let a point charge of be at a due to which we have to find out electric potintial at A.

Scanned by TapScanner

By defor of electric potential at A: Luchere War a 1s the amt. a test charge +90 from a let of= w(n(n(a)) to A) ·. Ep = - 1 9/ 1/2 Let PB = di (: Ponds are very much chose to each other) small amount of more is done in brunging a test charge +9. from Pto 9 dwp+ 9 = 9. Edu cos 180 (: Ep and du are in oppiding) > dwp+ Q =- Vo. Epdu => dwp+13 =-90-476. 9/du =-1-476. ·. Wax+A = (dwp+g = [-1 qqodu = -990]