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Answer Key Unit Test Paper 3 -IX Mathematics(By Deepika Bhati)

Section - A :-(9) 55, 35 1 (a) 4 cm 2 3 (d) 95 (a) <u>1</u>30 4 5 (a)34 Section B Griven: - AD = CB $LA, LB = 90^{\circ}$ 6 To brove :- CD biects AB. 0 In A COB & ADOA :-(equal perfendiculous) (B= AD LCBO=L DAO (90) LAOD = LOB (V.O.R) : DLOB EDDOA (by SAAS) AB=BO (by (PCT) so CD bisects AB a+30° = a 1 Q+b=180 1-130+1-= 280 2 12 + 30' = 180 20 - 150b = 75 a = 75+ 30 = 105°

Date 12 Griven: - Ulm & pillay. To prove: AABC= ACDA. PX. In DABCRACPA:-LCAB = LAD (alt int.) AC - AC (common) <PAC= LBCA (alt. int.) : AABCM ACDA (kyASA) Crimen: LCOE = 44 6 BOD = 31 LAOF = 5m lavid : 4 COE = 4FOD = 44 (V.O.A) 5 y+ 4 syt 3 y= 18 0 Fatter - (Straight 12 = 180 ine + 24 = 180 X1+L2= A1+L1 62=14 L2+L2 = 180 -eau L2+L3 = 180 L1+22=22+23 L1=L3 sony ventically offoste agles and equa

Griven: AB and CP are retensating line. LAOC- / DOB = 4k=0 (10) 11 To find: a, b, c 4 b + b + 60 = 180 cstraight and 56-160 = 280 56:120 k=120 3 1=24° 4b -(24) A -2c+a = 18026+96 = 180 180 - 9684 C - 84 42° to d : · a = 96, b = 24, c= 42

Griver DABC is isoscales. 12 AB = AL AD is altitude sol ADB and LADC Burg? To providi) AP Disects /A C In DABR and DACD :-AB=AC (ginen) AD=AP (common) LADB = 4DC (90) : AABP = AACP (by RHS) So, LBAD = LCAD (by (PCT) Former, une can say AD biseds LA. AD bixects BC :-(ii) By CPCT, BP= DC So , we can say AD bisectable 13 Crimen: Eo bisects LACEGO, L1= L2 X2 27 Toprove: LFOB = LFOA L1+L3=180 C L2+L4=180 2 linear pais X1+13=28+14 23=24 CFOB: LFOA Mence, Proved

Section-D :-Bargawati ® Page No. S P125 Date A 14 Criven - AHACD ā < MST = 125° \mathcal{P} 0 Constant Po II to AM and DC. LCUT= 55° (i) LAST+ LMST = 180 125°+ LAST = 100 Clincan pair) LAST=180-125 S & MD = 90° j) LAST = 55" LSMD+LUDM=180 (Co-interior) + LUDA : 180 LUDH= 90 LAST & + LST & = 180 1 25° + LSTO = 180 LSTS = 180-125 48TQ -55 LOTS = LCUT = 55° (alt. int. onfes) $2 \text{ STU} = 55^{\circ} + 55^{\circ}$ - 110

Section - E :-LAOP+[POC+(COQ+LGOB - CAOB 15 N+N+y+y= HACAOB 2 (x+ug) = 1 AOB 2(90) = LADB A TPOLALLOG = 90 180 = 1 AOB N+2 =90. So, A OSB are collimear pt.S. P 16 Griven - LDAP = LEBA I is midfairly of B LEPA = LDPB Toponi(1) B D DAPE DEBP In DD AP & DEBP :-LDAP = LLEBP AP=PB (Pis nidfinated AB LEPA=LDPB Add / EPP on both sides LDPA= LEPB ADAP = A EBP (by ASA i) AD: BE, by CPCT