Good SECTION II Question 6: (a) Candidate A = 15000 candidate B=10000 candidate c = 8000 Perontage=? olution: goage of winning = Candidate A x100 Total votes 15000 ×100 15000+10000+8000 15000 x1000 33000 22 15 58 15×100 2-45 33) 3510 33 132 33 So the number got 45% of the total votes. 18033 33

(B) Rahio of angles = 3:4:5 each angle = let O be any angle such that 30:40:50 is the ration Now we know that som of all angles of a triangle = 180 sc 30+40+50= 120-180 180 0-- M SO Angle 1 - 30 3/157 = 45 Angle 2 = 40 = 4(15) = 60 Angle 3 - 50 = 5(19) = 75° These are the three required angles (c)Each group = 4 boys and 6 girls Girls availde = 102. The natio of boysto girls is 2:3

50 : 102 where no. of poys required 215 the x so 68 boys will be required. Presentages = 6:7 after Syear = 7:8 find present Now A:B= 6:7 ___(i) after 5 years (A+5): (B+5)=67:8. - (iv 50 A = 6 R 7 A = 6(B) (iii) putin (2) $A+5 = \frac{7}{8}(B+5)$

1,8 $\frac{A+5-1}{8}\left(\frac{B+5}{8}\right)$ 28 $\frac{6}{74}$ B+5 = <u>7B+35</u> 8 8 28 $\frac{6B-7B+5=35}{78}$ 48B-49B = 35-5 56 B O 56 8 5 B = 611 6185 So the age of A is 30 and the age of Bis 35

QUESTION 8 (a) Sum of three consecutive odd number is 273 so let zis an odd number so x+2 is the nent consensive odd number and dry is the 3rd conneutive odd number so by condition (x)+(x2)+(x4)=27331+6 -273 3x = 273 2= 80 so the three consecutive numbers are 89,91 and 93 (b) 11) 4, 16, 36, 64, ____, 144. 2:20 2=4 42=16 6° . 36 So the nursing number is 100 82-64 1022 100 12=144

iii) 30,29,27, 24, 20,15 80 27-3=24 and 24-4=20 so our condition is correct hence the musing number is 24 37 (11) 1,7,15,25, 37,5 +6+8+90 +2 +14 108 50 25+12-37 36 -283 and 37+14=51 Henve 37 is the missing number. 1-112 35 - 31 (iv) 0, 2, 6, 12, 20, 2413 +2 +4 +8 +10 So the musing number is 42. 1 x30 672 (V) 48,24, 72, 35, 198, 48 -24 72 96 Question where 96

(C)(m) SCHAMOT (i) THRIS STOMACH SHIRT W GNDEER W) ONLNDO GARDEN LONDON (V) HIUDALY HOLIDAY (D) sara's mether = 6x sara Ali = 2xsara in three years sarat Alt+mom=72 Ager NOW = ? Let sara = n mother = 4 Ali=Z (i) (1) 50 y=6x and z=2x in three years i.e (iii) (n+3)+(y+3)+(2+3)=72

put (i) and (ii) in (iii) (n+3)+(6x+3)+(2x+3)=72 n+3+6n+3+2n+3=72. 9+92=72 92=72-9 92= 63 2=63 2-7 so from is y= (x =) y = 6(1)& from ji 7=22 So the age of sarais 7 age of methods 542 and age of Ali is 14.