25 4)2020 (Sal) (D) villes Ante R Format's me my fermat uses not a mathematilday. the save some inparent variets in the fiel of methomshies format's factorisation Method :-Let n be an add positive integer which is the abitternee of square of two hitegers che u k ea = (x+4) (x+3) again if neab, asher we can watte n = (a+b)) - (a -) 2 - difficul for for sand Mab Tab (?n= ab) lines in is an old fit-gen, we have a and to will be old integers and (at) and (a-b) will be non negative integers we have to find the value of x and y satisfying no st st v x x x n = 5 for this we observe the numbers - x= k +01

Unrestricted

Ext use format is mathed to fater 105 41 prof - from the table of square is me that 102 < 10541 < 123 Thenfore, we have to consider the Volues of 12 -10541 02 k = 103 taking the 103, 104, ----103-10541 = 10609-10541 = 54 1042 - 10541 = 10816 - 10541 = 10 1052 - 10541 = 11025 - 10541 = 4 Last relation gives 10541 = 103 - 22 = (105 + 22) (105 - 22) = 127 ×83 are the required factors per- use format's method to factor 2200 Profis from the table of lences that 1532 < 28449 < 154 We have consider the value of the - 23447 for Tabing k= 154, 155, -154 -23449 = 23716 - 23499 =245 1552 - 23449 = 24+25 - 22417 Last relation can be wretten 23449 = 1552 - 24 131×151 × 131 179 and 121 are the sugar

Unrestricted