NEWINDIA PAGE NO .: 1 DATE Name: Agen kya Kanthod Roll no. 30 Solution of Ordinary Nomerical & Methods. Assian - 3

NEWINDIA PAGE NO .: † DATE Defen a differial equation in what is most by walnution of different equation? Verity. y= C, et + c, l x is a colubre of differential. (y'-ay + y=0) y: a)c-& is dolukon of diff 2900ho y + //y = 0 Define a suporar og: equation indut vente, dependent on the sole note deliverties.

NEWLINDIA Solution of deflitted equel-1. 1 y" - 2y +y = 0 y(1) = C, 0 + Cd e x = act c, e+f(2ax [x] = 0 C, 0 + Cr (x /ax e + 2 / 2 = C,e+ + C, (1e + l'e) A) J'(a) - 6,0 + (2 1 + C2 12 Subsition 1, 60, TOTOTOL 0- C, 0x + 2c, 0x + C2 76. THE PERSON 100000 TOTOTOTO TOTAL PROPERTY.

NEWINDIA PAGENO : + DATE Here de ff eq. y + kg= equation differ the pathol e far diffuhal equation? Jonaton only one variable then all delivates Produed on equesion + gy = 0

PAGE NO : | DATE D. P. Rnieide Pritial value Phoblem & wonday sake Ploblen. Clavisty of Eollowing at Chutal equition on initial value pobler & boundary value (4H) problem. 1 of cookdinals are experience at dingle poir. This i conditions. 94 I condition are openified at I we than one point. These are boudey constins, CONTRACTOR OF THE PARTY OF THE TOO TO THE PARTY OF THE PARTY O COMMON TO Driter value problem THE OWNER OF THE PARTY OF THE P THE PROPERTY OF TOTTO - COMP

PAGE HOLL DATE 5+ 200 y(0)=0 y(0)=0 1112) Bronday value puotten (m) y'=+2+ y' y(0)=1 I sombal value problem Jollong de ships 2601. 4 4 4 5 = 2 x degru = 1 Order = 2 (1) 4(y') + 3y = 5)L probe = 20 | Degree =

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4=40+026 cosa+0- xin3+0 1+0,2 (1-0)-1 +223 Ja= y, +02 (cos 2+1 1 p + 0,2 (92106) + 0,56,64 92=1049714 92+0,2 (cos2 + +2 + 5173 12) 1. 61714 + 0126 cos 018 + 5in 100 47= 1.85 289

53+0,26 cos2+3 +5?2+3) = 1:82187+ 02((05 h2+din 1.1) 2.09013 55= 44-22 (Ccos +4+ sin3+4) = 2.09013+ 0,4 cos 1.6+ an 2.4) = 2.001979 Solution -> 2.21939