

SNS COLLEGE OF ENGINEERING



Coimbatore – 641 107

TOPIC 7: PROBLEMS ON ONE DIMENSIONAL HEAT EQUATION

The ends A and B of a rod horm long have there temps kept at Sc and SSC DOSPS. WALL Steady Shake County premits, the temp, of the and B is then Suddenly reduced to side and kapp to would that of the Road A TS Kept at de find the Subsequent temps distribution usard in hund. No Cm D RE CONTRACT TA 10 # cor(14/123)A a= 80=0 - A = (1334) 10-0 Lynalderaulas Lynd anth= 7 The Lemp. Waits is from 22 at an The Conditiones & denote and more an O watto O What 1= 40 (ala, 0)= 921 The Suitable Soly clant)- (Auspra Bis pa) Ce Us(a) = aa+b=m GD MONTH + (Acospat Bainpa O Elda 4263FJ

$$\begin{aligned} \begin{array}{l} & Apply (\Theta) \\ & Ho : Ho + (B Q in Hop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (B Q in Vop) (e^{-4^{2}p_{1}^{2}} \\ & (A i e^{-1}) = 2^{-1} + B Q Q in ((mn)) (e^{-4^{2}p_{1}^{2}} \\ & Hop \\ & Ho$$