AJEENKYA
D Y PATIL UNIVERSITY

End Term Examinations (April 2019)

School: School of Engineering **Program:** M.Tech (Bioengineering- BME)

Course: : Soft Computing **Course Code**: BEN504

Semester: II **Max Marks:** 20 **Duration (mins) :** 60

Answer any TWO questions.

Each question carries 10 marks.

Q 1. Explain back propagation algorithm with an example.

Q 2. A = {0.1, 0.2, 0.3, 0.4} B= {0.3, 0.5, 0.7}. Find A X B.

R is the relational matrix defined over A and B and is expressed as

R= {(x,y) I y=x+1, (x,y) Ɛ A X B }, Find the elements of R using matrix form.

Q 3. P= {(x1,0.97) ,(x2,0.74), (x3,0.81)}, Q= {(y1,0.71) ,(y2,0.34),(y3,0.91)}. Perform

Distributive Law and Associative Law on the fuzzy sets P & Q.