Samanta Chandrasekhar Institute of Technology and Mangement

INTERNAL EXAM :1   SEM: 3rd , EE

SUB: CNT   FULL MARK :10

Answer all the questions: (5*1=5)

Q1 (i) Draw the Power triangle for R-L series circuits state the

Expression for active reactive and apparent power ?

(II) What is damping in transient analysis ?

(III) Express the given current 10<60 degree amp in rectangular

Form ?

(iv) Draw the circuit of Low -Pass R-C circuit ?

(V) State the expression for Hybrid Parameters ?

Q2. Derive the relationship between phase voltage and line voltage

of a balanced 3-Phase star connection ?

(2.5)

Q3. Make a classification of various types of passive electric wave

filters and draw their frequency attenuation characteristics ?

(2.5)

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INTERNAL EXAM : 2   SEM: 3rd , EE

SUB: CNT   FULL MARK :10

Answer all the questions: (5*1=5)

Q1 (i) Define Resonance .What is condition for resonance in R-L-C
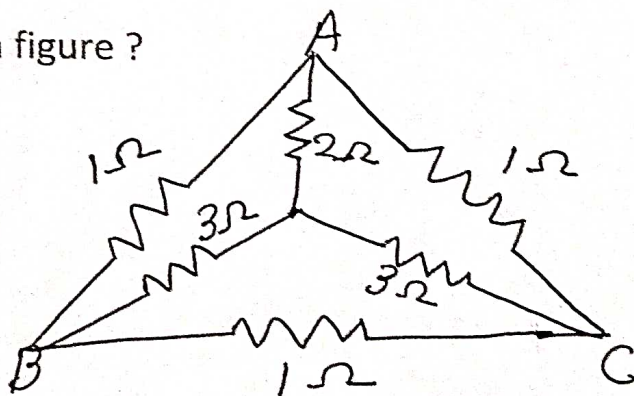
   Series circuit ?

   (II) Write down the two advantages of active filter over passive

       filter ?

   (III) Define Reluctance ?How is it analogous to electric circuit ?

   (iv) Define Time Constant in R-L circuit ?
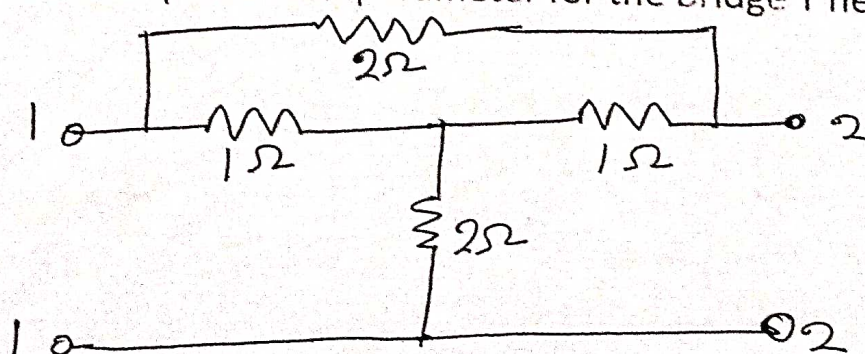
   (V) Define Co-efficient of coupling ?

Q2. Compute the network resistance of the terminals B and C in the

   given figure ?

                                                             (2.5)

Q3. Derive open circuit parameter for the Bridge T network

                                                             (2.5)