***Mid Term Exam***

**Discipline: BE Electrical Instructor: M. Junaid Arshad**

**Course Title: Digital Signal Processing**  **Semester: 6th Semester**

**Batch: 12**

**Total Marks: 10 Time Allowed: 40 Minutes**

**Roll no. & Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question no.1: (CLO-2)**

**What is circular and linear convolution? Find the circular and linear convolution of**

**Question no.2: (CLO-2)**

**Determine the Z-transform of the sequence given by:**

**Question no.3: (CLO-3)**

**Solve following equation, period is .**

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**Question no.4: (CLO-3)**

**Solve and prove that Parseval’s theorem is satisfy on.**

**Question no.5: (CLO-1)**

**Write down equation of linearity, frequency shifting and differentiation in Fourier transform.**

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Good Luck 👍

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