SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Hanuman Vyayam Prasarak Mandals's
College of Engineering & Technology, Amravati
Course: Information Technology
BE Four year 7th Semester (Information technology) Summer 2020 Exam
Subject: 7IT01- Digital Signal Processing
Assignment for ONLY BACKLOG STUDENTS

Instructions:

1. Solve **Any Two** Questions out of Four
2. Each Question Carries 10 Marks

Question 1. Solve the Following– 10 Marks

A. List & Explain all Standard Signals. 2M
B. Write all properties of Convolution Sum. 2M
C. Give the Property of z- Transform for Time Reversal. 2M
D. Define DTFT. 2M
E. Define Digital Filter. 1M
F. Explain Realization of the System. 1M

Question 2. Solve the Following – 10 Marks

A. Write 5 Advantages of DSP. 2M
B. Define Convolution sum. 2M
C. Give the Property of z- Transform for Time Shifting. 2M
D. What is mean by DTFT? 2M
E. Give Classification of Filter. 1M
F. Explain Lattice Structure 1M

Question 3. Solve the Following – 10 Marks

A. What are the Major Blocks in DSP System 2M
B. Explain Linear Difference Equation. 2M
C. What is mean by z- Transform. 2M
D. What is FFT? 2M
E. Define FIR Filter. 1M
F. Explain Cascade Form Structure 1M

Question 4. Solve the Following -10 Marks

A. Define Signal & its types. 2M

B. What is mean by Cross- Correlation 2M

C. Give the Property of z- Transform for Differentiation in Z- Domain. 2M

D. State the Property of Time Shifting of Fourier Transform. 2M

E. List out Advantages of Digital Filters 1M

F. Explain Frequency Sampling Structure. 1M