

Sant Gadge Baba Amravati University, Amravati
Summer 2020 Examination
H.V.P. Mandal's College of Engineering & Technology, Amravati
Course: Computer Science & Engineering
B.E. Four Year Seventh Semester (Computer Science & Engineering) Summer
Exam 2020
7KS01 – Digital Signal Processing
Assignment Only for Backlog Students

Instructions:

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

Question 1. – 10 Marks

A. Define DSP.	2M
B. What is mean by Convolution Sum.	2M
C. Give the Property of z- Transform for Linearity.	2M
D. Define Fourier Transform.	2M
E. Define Filter.	1M
F. Explain Direct Form Structure	1M

Question 2. – 10 Marks

A. Give Applications of DSP.	2M
B. What is mean by Correlation?	2M
C. Give the Property of z- Transform for Time Shifting.	2M
D. What is DFT?	2M
E. Define FIR Filter	1M
F. Explain Lattice Structure	1M

Question 3. – 10 Marks

A. What are the Major Blocks in DSP System	2M
B. What is mean by Auto Correlation	2M
C. Give the Property of z- Transform for Time Reversal.	2M
D. What is FFT?	2M
E. Define IIR	1M
F. Explain Cascade Form Structure	1M

Question 4 – 10 Marks

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| A. What are the Major Blocks in A to D Converter . | 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 |