

# CBCS SCHEME

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18EC52

Fifth Semester B.E. Degree Examination, Jan./Feb. 2023

## Digital Signal Processing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

1. a. State and prove circular time shift property. (06 Marks)
- b. Find the 4-point DFT of the sequence  $x(n) = \cos\left(\frac{\pi}{4}n\right) + \sin\left(\frac{\pi}{4}n\right)$  use linearity property. (08 Marks)
- c. Consider 4-point sequences  $x(n) = \cos\left(\frac{\pi n}{2}\right); 0 \leq n \leq 3$   
 $h(n) = 2^n; 0 \leq n \leq 3$   
 Compute circular convolution. Using concentric circle method. (06 Marks)

OR

2. a. State and prove Parseval's theorem. (06 Marks)
- b. Find 6-point DFT of the sequence  
 $x(n) = n^2; 0 \leq n \leq 5$   
 $= 0; \text{ otherwise}$  (08 Marks)
- c. Find the IDFT of the DFT  $X(K) = \{0, -2 + j2, 2, -2 - j2\}$ . (06 Marks)

### Module-2

3. a. Consider a FIR with filter whose impulse response  $h(n) = \{3, 2, 1, 1\}$  if the input is  $x(n) = \{1, 2, 3, 3, 2, 1, -1, -2, -3, 5, 6, -1, 2, 0, 2, 1\}$ , find the output using overlap add method assuming the length of block as 7. (10 Marks)
- b. Develop Radix-2 DFT-FFT algorithm and draw complete signal flow graph for  $N = 8$ . (10 Marks)

OR

4. a. Find the output  $y(n)$  of a filter whose impulse response is  $h(n) = \{1, 1, 1\}$  and the input signal to the filter is  $x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$ . Using overlap save method. (10 Marks)
- b. First five point of the Eight point DFT of a real valued sequence is given by  
 $x(0) = 0, x(3) = 2 - 2j$   
 $x(1) = 2 + 2j, x(4) = 0$   
 $x(2) = -j4$   
 Determine the remaining points. Hence find the original sequence  $x(n)$  using Decimation in frequency FFT algorithm. (10 Marks)

### Module-3

5. a. List the different types of windowing techniques used in the design of FIR filters. Write the analytical equations, draw the magnitude response and show the largest side lobe value below the dc magnitude. (08 Marks)
- b. The frequency response of an FIR filter is given by  
 $H(e^{j\omega}) = e^{-j\omega} (1 + 1.8\cos 3\omega + 1.2\cos 2\omega + 0.5\cos \omega)$   
 Determine the coefficient of the impulse response  $h(n)$  of the FIR filter. (06 Marks)

# Dsp Question Papers

**American Chemical Society**



## Dsp Question Papers:

*Digital Signal Processing* Muhammad Khan, Syed K. Hasnain, Mohsin Jamil, 2022-09-01 The subject of Digital Signal Processing DSP is enormously complex involving many concepts probabilities and signal processing that are woven together in an intricate manner To cope with this scope and complexity many DSP texts are often organized around the numerical examples of a communication system With such organization readers can see through the complexity of DSP they learn about the distinct concepts and protocols in one part of the communication system while seeing the big picture of how all parts fit together From a pedagogical perspective our personal experience has been that such approach indeed works well Based on the authors extensive experience in teaching and research Digital Signal Processing a breadth first approach is written with the reader in mind The book is intended for a course on digital signal processing for seniors and undergraduate students The subject has high popularity in the field of electrical and computer engineering and the authors consider all the needs and tools used in analysis and design of discrete time systems for signal processing Key features of the book include The extensive use of MATLAB based examples to illustrate how to solve signal processing problems The textbook includes a wealth of problems with solutions Worked out examples have been included to explain new and difficult concepts which help to expose the reader to real life signal processing problems The inclusion of FIR and IIR filter design further enrich the contents

**Proceedings of the International Conference on Transformations in Engineering Education** R. Natarajan, 2014-10-22 This book comprises the proceedings of the International Conference on Transformations in Engineering Education conducted jointly by BVB College of Engineering Technology Hubli India and Indo US Collaboration for Engineering Education IUCEE This event is done in collaboration with International Federation of Engineering Education Societies IFEES American Society for Engineering Education ASEE and Global Engineering Deans Council GEDC The conference is about showcasing the transformational practices in Engineering Education space

*Digital Signal Processing* C. Ramesh Babu Durai, 2005-12

**Conference Papers from the Summer Meeting** IEEE Power Engineering Society, 1975

Education World, 2004      Tamil Nadu Police Journal, 1971      Working Paper Series, 2003      **Sessional Papers** Great Britain. Parliament. House of Commons, 1902      Working Papers in Linguistics Ohio State University. Department of Linguistics, 1992      *Report of Proceedings*, 1921      Careers Digest, 1972      Report of Proceedings of the Congress of the Universities of the Commonwealth, 1921 Vols for 19 include Report of the Association of Universities of the British Commonwealth called 19 Universities Bureau of the British Empire

**Parliamentary Papers** Great Britain. Parliament. House of Commons, 1902      **India Today International**, 2002      **Data India**, 2004      *Sound & Communications*, 1989

**Southern Medical Journal** John A. Witherspoon, 1912      **Stretching a Point** James Richard Thomas, 2000 Abstract By a rough analogy we can consider discourse to be like soup When eating soup one is confronted by a dish in a form which is not conducive to isolating individual ingredients although some e g salt are more obviously abused than others Likewise

when interpreting discourse the individual constraints which went into its construction are hard to discern but some e.g. use of anaphora are easy to spot when under or over applied We can improve our broth expertise by cooking our own soup experimenting with the recipe and examining the resulting liquid By so doing one can begin to isolate flavours or textures characteristic of certain ingredients Again the analogy holds for discourse where by generating a series of discourses and altering the constraints which govern those generations one can begin to see the effects that different constraints have effects which it is difficult or impossible to perceive from the interpretation direction only This thesis examines how one constraint aspect affects discourse a preliminary experiment into the psychological plausibility of aspectual classes is carried out and the results compared to those classes generally used in the literature A treatment of aspect based on Moens and Steedman MS88 is then proposed and investigated before being extended and used in the treatment of tense temporal connectives perfectives and progressives Tense trees HS94 are introduced and appropriated in a reduced form to provide intersentential relations As discussed above the generation direction can be the source of much insight into the interpretation direction and this is shown throughout the thesis Finally an implementation based on the interpretation and generation of discourses describing the movement of staff around the Computer Laboratory is described and assessed

*Political Communication* Kiran Prasad, 2003 Contributed articles on role of mass media in political communication process and propaganda *Daily Report*, 1992

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