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**Question Paper Code : 21453**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Fifth Semester

Electronics and Communication Engineering

EC 2302/EC 52 — DIGITAL SIGNAL PROCESSING

(Regulations 2008)

(Common to PTEC 2302 – Digital Signal Processing for B.E. (Part-Time) Fourth Semester – ECE — Regulations 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the difference between DFT and DTFT.
2. What is bit reversal?
3. Distinguish between Butterworth and Chebyshev filter.
4. What is prewarping?
5. State the properties of FIR filter.
6. Give the desirable characteristics of the window.
7. What is meant by fixed point arithmetic? Give example.
8. Explain the meaning of limit cycle oscillator.
9. What is anti-imaging filter?
10. Give the applications of multi-rate DSP.

PART B — (5 × 16 = 80 marks)

11. (a) (i) State the following properties of DFT.  
(1) Time reversal  
(2) Parseval's theorem. (8)
- (ii) Perform the linear convolution of the given sequences  
 $x(n) = \{1, -1, 1, -1\}$ ,  $h(n) = \{1, 2, 3, 4\}$  using DFT method. (8)

Or

- (b) Derive the butterfly diagram of 8 point radix-2 DIF-FFT algorithm and fully label it.

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