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Question Paper Code : 55379

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2011.

Seventh Semester

Computer Science and Engineering

IT 1252 — DIGITAL SIGNAL PROCESSING

(Common to Fourth Semester B.Tech. Information Technology)

(Regulation 2004)

(Common to B.E. (Part-Time) Sixth Semester Computer Science and Engineering – Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Find the Z - Transform of $x[n] = [1, 2, 4, -1]$ and its associated ROC.

2. Find the Nyquist rate for the following signal.

$$x(t) = 20 \cos 400 \pi t + 10 \sin 200 \pi t$$

3. State Parseval's relation for DFT.

4. If $W_{64}^{36} = W_{128}^x$. Find the value of x .

5. A digital filter produces an output sample which is obtained by taking the average of the past three input samples and add the result with the current input sample and the past output sample. Find the number of additions and multiplications required.

6. In impulse invariant transformation, where will be the pole located at $S = S_k$ in the analog filter is mapped in the digital filter.

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