

Question Paper Code : 51409

B.E./B. Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Fifth Semester

Electrical and Electronics Engineering

EC 2361/EC 2314/EC 65/10144 EC 502/10133 EE 502--

DIGITAL SIGNAL PROCESSING

(Common to Sixth Semester Electronics and Instrumentation Engineering and Instrumentation and Control Engineering)

(Regulation 2008/2010)

(Also common to PTEC 2361 - Digital Signal Processing for B.E. (Part-Time) Fifth Semester Electronics and Instrumentation Engineering - Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A--(10 × 2 = 20 marks)

1. Consider the analog signal $x(t) = 3 \cos 50 \pi t + 10 \sin 300 \pi t - \cos 100 \pi t$. What is the Nyquist rate for this signal?

Ans: $x(t) = 3 \cos 50 \pi t + 10 \sin 300 \pi t - \cos 100 \pi t$

$$2\pi F_1 = 50\pi ; F_1 = 25 \text{ Hz}$$

$$2\pi F_2 = 300\pi ; F_2 = 150 \text{ Hz}$$

$$2\pi F_3 = 100\pi ; F_3 = 50 \text{ Hz.}$$

The maximum frequency is 150 Hz.

\therefore Nyquist rate = $2F_{\max} = 2 \times 150 = 300 \text{ Hz.}$

2. State Shannon's sampling theorem.

Ans:

[Refer: April/May '2011, Question No. 1].

3. What is meant by Region of Convergence?

Ans:

[Refer: April/May '2011, Question No. 3].

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