

R2016/CBCGS BE Computer Engg. /SEM VII Digital Signal & Image Processing / University Of Mumbai Online Examination Jan 2021

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Q.2 Solve any Four out of Six. (5 marks each)

Q. 2 [A] Define: 1) Deterministic and nondeterministic signals 2) Periodic and Aperiodic signals With the help of examples. *

- ☐ Attempted
- ☐ Not Attempted

Q. 2 [B] Compute linear convolution of the causal sequence $x(n)=\{1,2,0,1,2,3\}$, $h(n)=\{2,2,1\}$ using Overlap Add Method. *

- ☐ Attempted
- ☐ Not Attempted



Q. 2 [C] *

For a given discrete time signal $x(n)$

$$x(n) = \begin{matrix} 5 & 4 & 6 & -1 & 2 & 1 & -2 \end{matrix}$$

↑

Plot i) $x(n+4)$ ii) $x(n-1)u(n)$ iii) $x(-n)u(-n+1)$

☐ Attempted

☐ Not Attempted

Q. 2 [D] *

Obtain the linear convolution of two sequences defined as

$$x(n) = u(n) - u(n-3)$$

$$h(n) = u(n-1) + u(n-2) - u(n-4) - u(n-5)$$

☐ Attempted

☐ Not Attempted



Q. 2 [E] $x(n)$ is given. $x(n)=\{1, 2, 3, 1\}$ Perform FFT to convert signal from time domain to frequency domain $X[k]$. Draw butterfly flow graph. *

- ☐ Attempted
- ☐ Not Attempted

Q. 2 [F] Explain any three properties of DFT. *

- ☐ Attempted
- ☐ Not Attempted

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