

4 Answer the following : (any **two**) **14**

- (1) State the necessary and sufficient conditions for the existence of the Fourier series.
- (2) Explain the different forms of Fourier series.
- (3) What is region of convergence?

5 Answer the following : (any **two**) **14**

- (1) Give differences between: Analog and Digital Filters
 - (2) Give differences between: FIR and IIR Filters
 - (3) Define phase delay and group delay.
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