Total Marks: 80

(3 Hours)

N.B.: (1) Questions No.1 is compulsory.

| 2) Solve any three questions out of remaining five questions | |
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| Draw neat labeled diagram whenever necessary | |
| Assume suitable data if necessary | 1 |
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| | 5 |
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| v) Compare Bartlett , Welch and Blackman-Tukey methods of Power | 5 |
| Spectrum Estimation | |
| | |
| a) Explain Yule-Walker method for AR model Parameters. | 10 |
| b) What is QRS complex in ECG and Explain any method for QRS complex | 10 |
| detection. | |
| | |
| a) What are the time and frequency domain ECG parameters? Explain with | 08 |
| the ECG waveforms. | |
| b) Explain with neat block diagram the Adaptive Echo Cancellation. | 12 |
| | |
| a) Design TMC Alcouither and montion its limitations | 10 |
| 10-14 I | 10 |
| b) Explain Application of wavelet Transform for Signal Denoising. | 10 |
| NIL O 1 146 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 |
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| c) Compare Short Time Fourier Transform and Wavelet Transform | 06 |
| | a) Explain Yule-Walker method for AR model Parameters. b) What is QRS complex in ECG and Explain any method for QRS complex detection. a) What are the time and frequency domain ECG parameters? Explain with |