

- 1.1 CD
- 1.2 C
- 1.3 D
- 1.4 B
- 1.5 C
- 1.6 A
- 1.7 C
- 1.8 A
- 1.9 D
- 1.10 D
- 1.11 A
- 1.12 D

1.4: (B)  $y[n] = -0.9 y[n-1] + 0.7 y[n-2] + \dots$

1.5: (C) from formula paper:

$$H(z) = K \left[ \prod_i (1 - z_i z^{-1}) \right] / \left[ \prod_i (1 - p_i z^{-1}) \right]$$

1.6: (B) was close but (A) better, because zero is not so dominant, and poles at low frequency. Giving +1p for (B) is not fair for those not replying anything (for reason or another).

1.8: LTI: only summing, multiplication by constant, delays.  
Median requires sorting.

1.9: (B)  $T < 0.2 \text{ ms} \iff f > 5000 \text{ Hz}$ .