

corso di Signal Processing for Biomedical Engineering

Written test of June 28th 2017.

note: This test is valid only for registered students. Test delivery implies that previous results are canceled.

Family and first name (printed):	
signature:	
Roma3 registration number:	or ID card number:
born on (day/month/year):///	
In the academic year 2016/2017 registered at	the year of the master course in
e-mail (write in clear letters):	_@
Fserr	rizi:

- 1) Let x(n) = s(nT) be the sequence obtained from sampling with the period T of the analog signal s(t). Perform an **effective** digital processor to obtain at the output the sequence: y(n) = s(0.8 n T 0.3 T).
- 2) Perform a linear FIR filter made of 5 coefficients to neglect low frequency contents for $|\omega| < \pi/8$ (being ω the radian normalized frequency).