Examen final GEL-16120 (2003)
(Réponses soule mont SAKS Le
Développement) a) 8) Spm(4)=4 cos [1041+8×10 sin (401)-3×13 es (1211+)] (1) 28mAx = 0.11 iii) Afmax = 0.34 in) f.(t)=5x103+0.16 cos (411t)+ 0.18 sin(1211t) v) B7 = 13.30 Hg b) i)  $\Delta_{Fm}(t) = \frac{4}{4} \cos \left[10^4 \pi t - \frac{24}{\pi} \cos (4\pi t) + \frac{24}{\pi} - \frac{3}{\pi} \sin (12\pi t)\right]$ (ii)  $\Delta G_{mAX} = 51 - 16.034$ (iii)  $\Delta f_{mAX} = 66 = 21.008$ in) filt) = 5x18 + 15.299 sin (4Tt) -5.730 (00 (12Tt) m) BT = 54.614 Hz 2 a)  $R(k) = \int A^2/2$ , k=0  $R(k) = \int A^2/4$ ,  $k \neq 0$   $R(k) = \int A^2/4$ ,  $k \neq 0$ PARZUNIPOLEITE 4 [ Sin (10 5 17 4)] [1+10 8(4)] 6)  $R(k) = \{A^2, k=0\}$ NRE BIPOLAIRE  $\{0, k\neq 0\}$ (AR = (f) = 185A2 [ Sin (105 TT f)]

e)  $R_{RZ}$  (R) =  $A_{A}^{2}$  A = 0  $A_{A}^{2}$   $A_{A}^{2}$ (f) = (0.16)A<sup>2</sup>/o<sup>5</sup> sin (0.8×10<sup>5</sup> Tf) x

(0.8×10<sup>5</sup> Tf) x [1+105\ 5(4-m105)] Questron 3: FIF = 10.7 MHZ Jose, Jose Jose - Donney UNE 132.7 M = fox, < 180.7 MH8 Description De Chaque fosca = 11.155 MHZ Composante et 3A FONCTION

