Jeriodic T=6 MS

F= to kHZ

duty=2to kHZ

Deriodic

T=6 MS

F= to kHZ

duty= to kHZ

duty= to kHZ

1-11 Analog: (b) (c) (d)

1-12 Analog: (c) (e)

1-13 (a)=
$$2^{4}+2^{3}+2^{9}=16+8+1=25$$

(b)= $2^{3}+2^{9}+2^{-1}+2^{-4}$

= $8+1+0.5+0.0625$

= 8+1+0.5+0.0625 (6) = 210+27+20+24+23+20+21+23+24 = 6024+ 128+ 64+16+8+1+0.5+0.05+

52

= 9. \$ \$25%. 0.0625 = 1241.687510

(a) = 24+21+20 = 16+2+ = 19,0 1-14 Lb)= 23+22+2-2+2-4=8+4+0.2++0.062+ = 12.3/25/0 (b)= 210+ 28+26+25+2+2++2-4 = 1024+128+64+32+4+0.5+0.0625

= 12+2.+624/0

1-17. 2/0-1=(1023)10 1-18 214-1 = 260.24-1= 1024.16-1=(16383)60 1-19 511<29=512 . It needs 9 bits 63<64=26 It needs 6 bits 1-20 1-2 inveating: (b) (6) de veating: a) 1-22. (a) 15<16=24 It needs 3 lines. ub) Just I line.