Assignment 11 : solutions

Q1. (d.) first increases and then saturates. Q2. (b) Bandwidth. Q3. (c) phase difference of 180°. vary with a factor of 't' (d), End-fire, End-fine Q(. (b) 5 dbi Q7. Given f= 960 MHz > 2= 31.25cm 7.1(c) driver length 4 0.45-0.49 x = 14.1-15.3 72(c) reflector length = 0.5-0.55 A = 15.6-17.2 cm 7.3 (b) director length = 0.4-0.451 = 12.5-14.1 cm 74 (b) specing blu ref. and driven 4 0.2-0.252 7.5 (b) spacing bla director & driven = 0,3-0.42 QB-19 given fe=800 MHZ = 375 mm = 11 = 187.5mm fu = 2700 MHZ => Au= 111.11 => du = 55.5 mm 8. (c) maximum denyth = 1 = 187.5 mm 9.(C) min. Length: 20 = 55.5 mm 10. (b) calculate smallest n, which satisfy

(/2/2) x tm-1) < (/24/2) > [n=9]