

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Electronic Circuits

Subject Code : CCN2268

Session : Semester Two, 2016/17

Numerical Answers

Question 1

(a) zeros are 0 and -500. Poles are -100 and -2000.

Question 2

(d) 1.414 rad/s

Question 3

(b) 0.05

(c) max. voltage = 5.67 V and min. voltage = 0 V.

(e) 0.1414 V

Question 5

(c) $I_B = 0.0014$ A, $I_C = 0.14$ A and $V_{CE} = 8.268$ V

(e) -323.62

(f) 16.128 V

Question 6

(c) $I_{DQ} = 0.0031$ mA, $V_{GSQ} = -1.528$ V and $V_{DSQ} = 22.361$ V

(d) 2.472 mS

(f) -0.4944 V