## LINEAR INTEGRATED CIRCUITS QUESTION BANK

## UNIT-2

- 1) Write reasons for stability requirements in a feedback system.
- 2) What is Barkhausen's criteria?
- 3) What do you mean by internally compensated op amp?
- 4) For better stability what should be the phase margin value?
- 5) At pole frequency, gain increases by 20db/decade, True or False?
- 6) At frequency where two poles exist, gain falls by 60db/decade, True or False?
- 7) At zero frequency, phase leads by 90 degrees, True of False?
- 8) Overshoots can be reduced by decreasing phase margin, True or False?
- 9) Compensation circuits are usually realized by RL networks, True or False?
- 10) How many poles are there in this transfer function?

$$A\beta = \frac{\frac{aZ_{G}}{Z_{F} + Z_{G} + Z_{O}}}{\frac{(Z_{F} + Z_{G})Z_{O}C_{L}s}{Z_{F} + Z_{G} + Z_{O}} + 1}$$

- 11) With the help of bode diagram, explain gain compensation technique
- 12) With the help of bode diagram, explain lead compensation technique.