

Code No: 133AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November/December - 2018

ANALOG ELECTRONICS

(Common to ECE, ETM)

Time: 3 Hours

Max. Marks: 75

Notes: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

### PART- A

(25 Marks)

- 1.a) What are the types of distortion in amplifiers. [2]
- b) Classify the amplifiers according to the method of coupling. [3]
- c) Why the h parameter model is not suitable to analyze transistor at high frequencies. [2]
- d) What are the elements in the Hybrid  $\pi$  model? [3]
- e) What is cascode amplifier? [2]
- f) State the advantages and disadvantages of the source follower. [3]
- g) What is meant by positive and negative feedback? [2]
- h) State the Barkhausen criterion for oscillations. [3]
- i) What are the requirements of a tuned amplifier? [2]
- j) Give the definition of power amplifier. Also list the types in it based on location of Q point. [3]

### PART B

(50 Marks)

2. Draw the h-parameter equivalent circuit for a typical common emitter amplifier and derive expression for  $A_v$ ,  $A_{v_s}$ ,  $R_i$  and  $R_o$ . [10]
- OR
3. Draw simplified h parameter equivalent circuit and calculate  $A_v$ ,  $A_{v_s}$ ,  $A_{v_o}$ ,  $R_i$  and  $R_o$  for the cascode circuit shown in figure 1. Assume that transistors are identical with  $h_{be}=10$ ,  $h_{re}=2 \text{ K}\Omega$ ,  $h_{oe}=h_{oc}=0$ . [10]

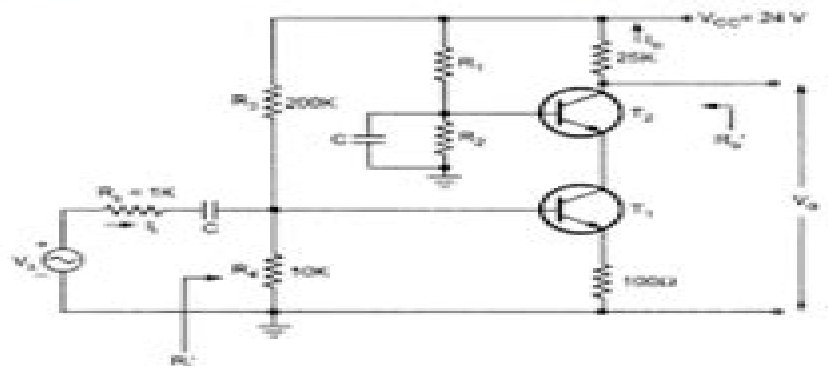


Figure: 1

# Analog Electronics Diploma Question Papers

**J Elliott**



## **Analog Electronics Diploma Question Papers:**

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**Bulletin de L'Association Internationale D'hydrologie Scientifique** International Association of Scientific Hydrology,1969      **Engineering** ,1971      *Electrical & Electronics Abstracts* ,1988      **Bulletin of the Institution of Engineers (India).** Institution of Engineers (India),1988      *Proceedings of the IREE.* Institution of Radio and Electronics Engineers, Australia,1975      *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis,Marquis Who's Who,2007-12      **Popular Electronics Including Electronics World** ,1973      *Conference Papers Index* ,1987      *The Advocate* ,2005-06-21 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United States

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