

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]

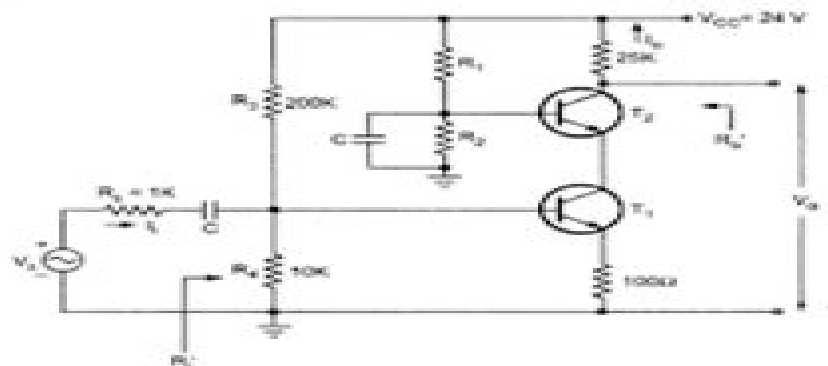


Figure: 1

# Analog Electronics Diploma Question Papers

**YCT Expert Team**



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

**A FIRST COURSE IN ELECTRONICS** KHAN, ANWAR A. ,DEY, KANCHAN K.,2006-01-01 This book provides a comprehensive introduction to the fundamental principles of modern electronic devices and circuits It is suitable for adoption as the textbook for the first course in electronics found in most curricula for undergraduate physics and electronic science students It also covers several topics of electronics being taught at the postgraduate first year level in physics Besides the students pursuing degree or diploma courses in electrical electronics and computer engineering will find this textbook useful and self contained The text provides a thorough and rigorous explanation of characteristics and parameters of the most important semiconductor devices in general use today It explains the underlying principles of how different circuits work providing valuable insights into analysis of circuits so essential for solving design problems Coverage includes all the basic aspects of analog and digital electronics plus several important topics such as current mirrors and their applications amplifiers with active load composite devices and their equivalent models and applications op amp mathematical and circuit modelling and logic circuits analysis Key Features Emphasizes underlying physics and operational characteristics of semiconductor devices Numerous solved examples and review questions help the students develop an intuitive grasp of the theory Sufficient number of conventional and short answer type model questions included in each chapter acquaint the students with the type of questions generally asked in examinations **ELECTRONICS LAB MANUAL (VOLUME 2)** NAVAS, K. A.,2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering **Frontier Research on Digital Computers ...: Numerical analysis, and papers relating to Soviet computers** ,1960 **2024-25 RRB Technician**

**Grade-I Signal Basic Science & Engineering Chapter-wise Study Material and Question Bank** YCT Expert Team , 2024 25 RRB Technician Grade I Signal Basic Science Engineering Chapter wise Study Material and Question Bank 496 795

Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices Yusof, Khairiyah Mohd,Azli, Naziha Ahmad,Kosnin, Azlina Mohd,Yusof, Sharifah Kamilah Syed,Yusof, Yudariah Mohammad,2012-06-30 This book provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education Provided by publisher **Educational Yearbook** ,1972 **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 *China World Bank*,1993 The Republic of Korea s industrial policy has directed that nation s economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy s structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts *Federal Times* ,1970-07 Reprographics Quarterly ,1979

**Government Reports Announcements & Index** ,1993 **Worked Examples in Analog Electronics** Peter H. Mowe,1995 *Computer Education* ,1976

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