

Time : 3 Hours

Max. Marks : 100

Instruction : Answer any five full questions, by choosing atleast two from each Part.

PART - A

1. a) Classify the diode clipping circuits with neat circuits and relevant waveforms. 8
 b) For the circuit shown below figure 1. b) sketch the transfer characteristic and o/p waveform (Assume ideal diodes). 6

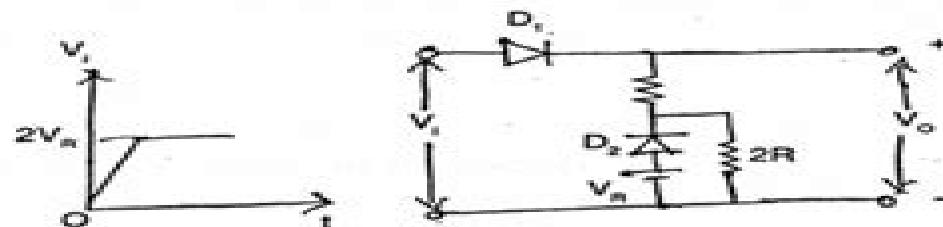


Fig. 1(b)

- c) Define clamping circuit and also explain the working of positive peak clamer. 6
 2. a) Define Q-point. Discuss the issues related to stability of operating point of BJT amplifiers. 6
 b) Compare and contrast stability factor of fixed-bias and self-biased BJT circuits. 6
 c) Design a voltage divider bias circuit using a silicon transistor with $V_{cc} = 18V$, $I_c = 2.3 \text{ mA}$, $V_{ce} = 8.2 \text{ V}$, $R_c = 3.3 \text{ K}$, $\beta = 100$ and $S(I_{ce}) \leq 5$. 8

P.T.O.

Analog Electronic Circuit 3rd Sem Ec

**Marshall Leach, Thomas E. Brewer, R.
Allen Robinson**

Analog Electronic Circuit 3rd Sem Ec:

Analog Electronic Circuits (For 3rd Semester of APJKTU, Kerala) Sukumaran P., Analog Electronic Circuits **Analogue Electronic Circuits and Systems** Amitava Basak,1991-11-29 This book is an undergraduate textbook for students of electrical and electronic engineering It is written with second year students particularly in mind and discusses analogue circuits used in various fields *Analog Electronics* Ian Hickman,2013-10-02 Analog Electronics is an 11 chapter text that covers the significant advances in several aspects of analog electronics with emphasis on how analog circuits work The opening chapters consider the passive and active components of analog circuits The succeeding chapters deal with the amplification of audio frequency electrical signals and their transformation into sound waves as well as the passive signal processing and transmission The discussion then shifts to the active signal processing in frequency and time domain Other chapters examine the mechanism of radio frequency circuits signal sources and power supplies The closing chapter tackles the commercial and professional application of electronics This book will prove useful to engineers technicians and students

1997 IEEE International Conference on Acoustics, Speech, and Signal Processing ,1997 **Cornell University Courses of Study** Cornell University,2007 *Experiments in Electrical and Analog Electronic Circuits* Marshall Leach,Thomas E.

Brewer,R. Allen Robinson,2012-03 **ANALOG ELECTRONICS** PITTET, ANDRÉ,KANDASWAMY, A.,2009-09-01 The recent growth of industrial automation as well as wireless communication has made the Analog Electronics course even more relevant in today s undergraduate programmes This well written text offers a comprehensive introduction to the concepts of circuit analysis electronic devices and analog integrated circuits The primary aim of this textbook is to raise the analytical skills of students required for the analysis and design of analog electronic circuits This book exposes the students to the current trends in Analog Electronics including the complete analysis and design of electronic circuit using Diodes BJTs FETs MOSFETs CMOS and operational amplifiers **Proceedings** ,2003 *Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,2000 *Courses Catalog - University of Illinois at Urbana-Champaign*

University of Illinois at Urbana-Champaign,2002 Includes undergraduate and graduate courses **Catalog** University of Colorado Boulder,2006 *Technical Abstract Bulletin* ,1979 **Guide to the Evaluation of Educational Experiences in the Armed Services, 1954-1989** ,199? **The 1982 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1982 **University of Colorado at Denver Catalog** University of Colorado at Denver,2009 *Journal of Engineering Education* ,1995 *University of Colorado at Colorado Springs Bulletin* University of Colorado at Colorado Springs,1994 **The University of Virginia Record** University of

Virginia,2007 *The National Guide to Educational Credit for Training Programs* American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies **Analog Electronic Circuits** Beijia Ning,2018 A comprehensive

collection of fundamental principles and applications of analog electronic circuits including semiconductor diodes bipolar junction transistors field effect transistors FETs operational amplifiers power amplifiers and feedback circuits With abundant practical examples it is an essential reference for researchers students and engineers in electronical engineering and information processing

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