

Max. Marks:80

Duration: 3hrs

NB:

- (1) Question No.1 is compulsory.
- (2) Answer any **three** from remaining questions.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if required.

Q.1

Attempt any four

- a Give the equation for the current in semiconductor diode. With the help of this equation explain in detail the V-I characteristics of a semiconductor diode. 5
- b Explain effect of temperature on JFET and derive equation for zero temperature drift. 5
- c For the circuit shown in fig 1 determine small signal hybrid pi parameters of transistor. 5



Fig.1

- d Design clipper circuit for the output shown in figure.2 Assume diode is ideal.



Fig.2

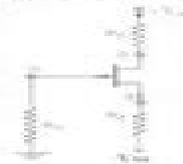


Fig.3

- e For the FET shown in figure.3 the drain current equation is $I_{DQ} = 9 \left(1 + \frac{V_{GSQ}}{5} \right)^2$ mA. Determine I_{DQ} , V_{GSQ} , V_{DSQ} , V_D , $V_{DS} = 18V$, $R_D = 2.2k\Omega$, $R_S = 1.2k\Omega$, $-V_{GS} = -9V$ and $R_G = 1M\Omega$. 5

Analog Electronics Diploma Question Papers

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

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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

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