

**B.Tech. 1st Semester (Common for All Branches)
(Common with Special chance) F Scheme
Examination, December-2019**

BASIC OF ELECTRONICS

Paper-ECE-101-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : There are nine questions. Attempt any five questions in total. Question No. 1 is compulsory. One question must be attempted from each section.

1. (i) What is an amplifier and why there is need for cascading ? 5
- (ii) LED emit light of different colors. Why ? 5
- (iii) What are the differences between Zener and Avalanche breakdown ? 5
- (iv) What is an ideal diode ? Discuss with its equation. 5

Section-A

2. (a) Explain semiconductor with its types. Why Si is preferred over Ge ? 10
- (b) State and explain drift and diffusion current. 10
3. (a) Explain the terminal characteristics of PN junction diode. 10

Diploma Second Semester Basic Electronics Questions Paper

SJ Ball



Diploma Second Semester Basic Electronics Questions Paper:

Bulletin of the Institution of Engineers (India), Institution of Engineers (India),1974 **Early Warning Systems and Targeted Interventions for Student Success in Online Courses** Glick, Danny,Cohen, Anat,Chang, Chi,2020-06-26 Online learning has increasingly been viewed as a possible way to remove barriers associated with traditional face to face teaching such as overcrowded classrooms and shortage of certified teachers While online learning has been recognized as a possible approach to deliver more desirable learning outcomes close to half of online students drop out as a result of student related course related and out of school related factors e g poor self regulation ineffective teacher student student student and platform student interactions low household income Many educators have expressed concern over students who unexpectedly begin to struggle and appear to fall off track without apparent reason A well implemented early warning system therefore can help educators identify students at risk of dropping out and assign and monitor interventions to keep them on track for graduation Despite the popularity of early warning systems research on their design and implementation is sparse Early Warning Systems and Targeted Interventions for Student Success in Online Courses is a cutting edge research publication that examines current theoretical frameworks research projects and empirical studies related to the design implementation and evaluation of early warning systems and targeted interventions and discusses their implications for policy and practice Moreover this book will review common challenges of early warning systems and dashboard design and will explore design principles and data visualization tools to make data more understandable and therefore more actionable Highlighting a range of topics such as curriculum design game based learning and learning support it is ideal for academicians policymakers administrators researchers education professionals instructional designers data analysts and students **ELECTRONICS - I** K. Shashidhar,2012-05-25 Electronics I is intended to be used as a text book for II Semester Diploma in Electrical and Electronics Engineering The motivation for writing this book came when I felt the absence of a suitable text for Polytechnic students This book is meant to fill the void It is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education To enhance the utility of the book important points and review questions Fill in the blank and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations It is hoped that this book will be of immense use to teachers and students of Polytechnics Any constructive suggestions from teachers and students for improving the contents will be warmly appreciated **Daily Graphic** Yaw Boadu-Ayeboafoh,2005-12-10 World Survey of Education ,1966 **Universities Handbook** ,2014 *Resources in Education* ,1997 Resources in Education ,1981 *Government Reports Announcements & Index* ,1993 **The Education of Professional Engineers in Australia** Brian Edmund Lloyd,1968 **The Building Services Engineer** ,1977 Report on Education and Training of Professional Engineers ,1960 **A**

comparative study of engineering education and train- ,1962 The Engineer ,1957 *The College Handbook* ,1995
Electrical & Electronics Abstracts ,1989 *Physics Briefs* ,1993 **The College Handbook, 1997** College
Board,College Board Staff,1996 Updated annually to guarantee the most up to date information possible The College
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