

Department of Electronics & Communication(University Polytechnic)

Jamia Millia Islamia

First Semestral Test (April 2019)

Total Marks-25

Time: 1 hour

Subject -DIGITAL ELECTRONICS

Subject Code: DEL-101

Attempt all questions.

Unit-1

- Q.1) Convert the following numbers to their equivalents as asked: (6)
- (a) $(11074)_{10} = ()_{16}$ (b) $1101111.101 = ()_{10}$ (c) $11.101101 = ()_{10}$ (d) $(1723)_{10} = ()_{16}$
(e) $(AC3)_{16} = ()_{10}$ (f) $3018 = ()_{16}$
- Q.2) Convert: (a) 10001110101 to gray code (b) Gray code 111011001 to binary (3)
- Q.3) Perform calculation as asked: (a) $1110.1011 + 1001.1110$ (b) $10000 - 11000$ (3)
- Q.4) (a) Write the BCD code for 93.17 (b) Write the Excess -3 code for 951 (2)

Unit-2

- Q.5) Reduce the given Boolean expressions: (5)
- (a) $AD + DA + AC$ (b) $[(A + B + C + D)' + AB'CD]'$
- Q.6) Explain half adder circuit with the help of truth table, logic diagram and boolean expression. (3)

Digital Electronics Diploma First Sem Question Paper

Zhe Xu



Digital Electronics Diploma First Sem Question Paper:

FUNDAMENTALS OF DIGITAL ELECTRONICS (2 Credits) Electronic Science P B Prof (Dr) Buchade,P. B. (Dr. Buchade,M L Prof (Dr) Dongare,M. L. (Dr. Dongare,J. A. Bangali,2019-11 Electronics have made tremendous revolution in last decade The majority of this revolution is in the digital world Students entering in the field of Electronics should have understanding of basic fundamentals of digital electronics This text book has been prepared keeping in mind the need of subject and syllabus specified by SPPU The First Chapter describes basics of digital electronics which includes number system logic gates and Boolean algebra

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BASICS OF DIGITAL ELECTRONICS. VIBHAV K.. AWASTHI SARASWAT (KAMLENDRA.), 2025

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Digital Electronics 1 John Monro, 199?

Course 5 - Basic Digital Electronics Gary A. Gibson, 2007-02-01

A Textbook of Digital Electronics RS Sedha, 2008 While writing this treatise I have constantly kept in mind the requirements of all the students regarding the latest as well as changing trend of their examinations To make it really useful for the students latest examination questions of various indian universities as well as other examinations bodies have been included The Book has been written in easy style with full details and illustrations

Practical Digital Electronics Pierre Pelloso, *Digital Electronics* James Bignell, 2000

Digital Electronics Dr. P. Kannan, Mrs. M. Saraswathy, 2018-10-01 This book is extensively designed for the third semester ECE students as per Anna university syllabus R 2013 The following chapters constitute the following units Chapter 1 2 and Unit 1 Chapter 3 covers Unit 2 Chapter 4 and 5 covers Unit 3 Chapter 6 covers Unit 4 Chapter 7 covers Unit 5 Chapter 8 covers Unit 5

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comparison operation and characteristics of RTL DTL TTL ECL and MOS families We have taken enough care to present the definitions and statements of basic laws and theorems problems with simple steps to make the students familiar with the fundamentals of Digital Design Introductory Digital Electronics ,1983 **Digital Electronics : a Practical Approach** William Kleitz,1999 Applied and Digital Electronics (WBSCTE) Sandeep Joshi, Applied and Digital Electronics covers the syllabus requirements of the subject for West Bengal State Council of Technical Education It aims at giving a strong understanding of the concepts required for designing complex electronic circuitry computers and communication systems Each chapter of the book begins with an introduction of the topic and then explains the complex concepts in a simple way The text has been supplemented with solved examples and relevant diagrams KEY FEATURES Covers all topics related to applied and digital electronics Contains Long answer Questions Short answer Questions Contains large number of solved examples

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