

KIIT UNIVERSITY, BHUBANESWAR
SPRING MID SEMESTER EXAMINATION-2019
DIGITAL ELECTRONICS CIRCUITS [EC- 402]

Full Marks: 25

Duration: 2Hrs

Answer any FIVE questions including question No.1 which is compulsory.

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.

$$RS + \overline{PQR} + PQ\overline{R} + PQR + \overline{P}QRS$$

[1x5]

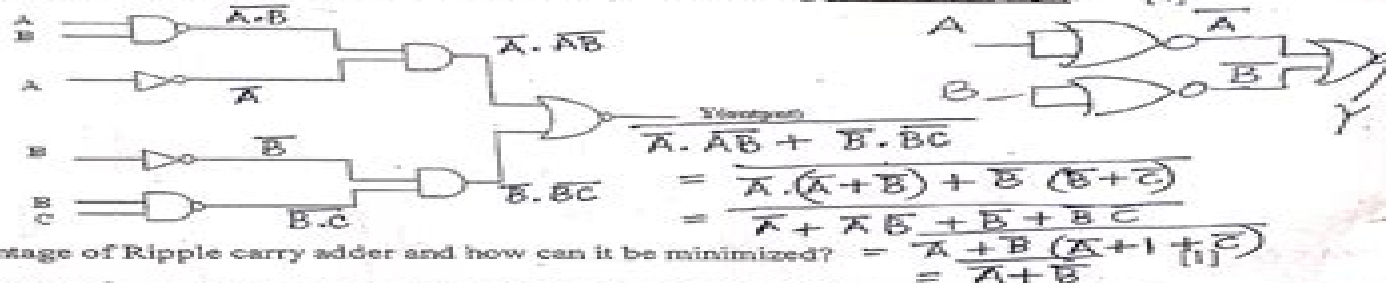
- (1) a) "Gray codes are cyclic but not sequential & self-complementing." Justify.
 b) Perform following arithmetic: (i) BCD addition (749+858),
 (ii) $(-9) - (-6)$ using 2's complement method.
 c) Show that, $U\overline{V} + U\overline{W} + V\overline{W} = U + V\overline{W}$ where U, V and W are Boolean variables.
 d) Define 'Positive logic system' and 'Negative logic system'.
 e) Why the row and column values of the K-map are ordered in Gray code rather than binary numerical order, explain in brief.

- (2) Obtain the minimized expression for the following 4-variable Boolean expression using K-map method and implement the minimized expression using minimum numbers of universal gates.
 $F(P,Q,R,S) = \sum m(0,1,7,10,11,12,13) + d(2,4,8,14)$

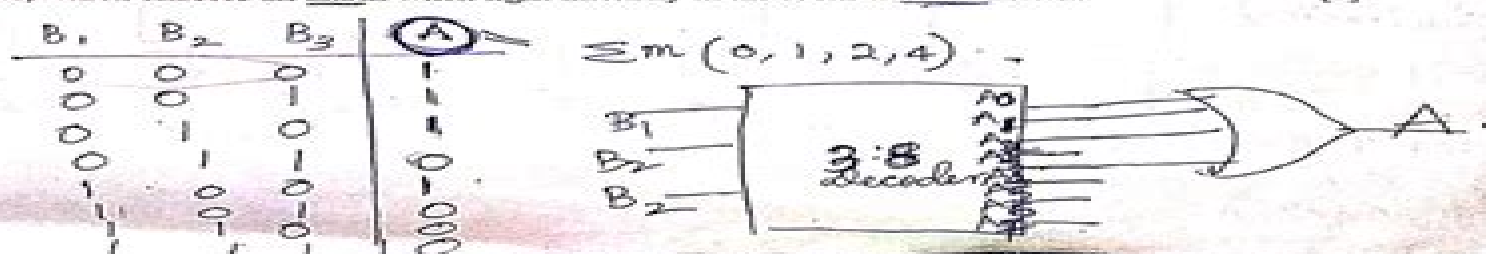
[5]

- (3) a) Design 4-bit combined adder/subtractor circuit using full adders & XNOR gates only and explain the working in brief. [4]
 b) Define Reflective codes and explain with proper example in brief. Gray codes. [1]

- (4) a) Simplify the given logic circuit and implement the simplified expression using only NOR gates. [4]



- b) What is the disadvantage of Ripple carry adder and how can it be minimized? [2]
 (5) a) What is Decoder? Draw the circuit diagram and truth table of 2-4 decoder having active-LOW output terminals. [2]
 b) In a room there are three electric lamps. For sufficient light intensity, at least two lamps must be ON at the same time. Design a circuit, using 3-8 decoder (having active HIGH output lines) and basic logic gates, which enables an alarm when light intensity in the room is not sufficient. [3]



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CH Cherryholmes



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Electronics World ,1971 **Resources in Education** ,1998 *Documentation Abstracts* ,1994 *The Cumulative Book Index* ,1967 A world list of books in the English language Resources in Education ,1995 **Integrating Educational Technology Into Teaching** M. D. Roblyer,Jack Edwards,Mary Anne Havriluk,1997 **A Decade of Research on School Principals** Helene Ärlestig,Christopher Day,Olof Johansson,2015-11-13 This book provides a unique map of the focus and directions of contemporary research on school leadership since 2000 in 24 countries Each of these directions has its own particular cultural educational and policy history Taken together the various chapters in the volume provide a rich and varied mosaic of what is currently known and what is yet to be discovered about the roles and practices of principals and their contributions to the improvement of teaching and the learning and achievement of students The particular foci and methodological emphases of the research reported illustrate the different phases in the development of educational policies and provision in each country This collection is an important addition to existing international research that has shown beyond any reasonable doubt that the influence of school principals is second only to that of teachers in their capacity to impact students progress and achievement and to promote equity and social justice **Research Quarterly for Exercise and Sport** ,2008 *Computer Education* ,1995 *The Study of Stanford and the Schools* ,1987 *Handbook of Home Language Maintenance and Development* Andrea C. Schalley,Susana A. Eisenclas,2020-06-22 Even a cursory look at conference programs and proceedings reveals a burgeoning interest in the field of social and affective factors in home language maintenance and development To date however research on this topic has been published in piecemeal fashion subsumed under the more general umbrella of bilingualism Within bilingualism research there has been an extensive exploration of linguistic and psycholinguistic perspectives on the one hand and educational practices and outcomes on the other In comparison social and affective factors which lead people to either maintain or shift the language have been under researched This is the first volume that brings together the different strands in research on social and affective factors in home language maintenance and development ranging from the micro level family language policies and practices to the meso level community initiatives and the macro level mainstream educational policies and their implementation The volume showcases a wide distribution across contexts and populations explored Contributors from around the world represent different research paradigms and perspectives providing a rounded overview of the state of the art in this flourishing field

Cincinnati Magazine ,2003-04 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region *New Ways of "learning the Library" -- and Beyond* Linda Shirato,Elizabeth R. Bucciarelli,Heidi Mercado,1996 **The Weekly Japan Digest** ,1999 Reference Services Review ,1973 Physics Briefs ,1985 New Scientist and Science Journal ,1985 American Educational Research Association Annual Meeting Program American Educational Research Association,2000 **Plastics World** ,1986

Juvenile Delinquency Clemens Bartollas, 2006 Juvenile Delinquency provides a comprehensive cutting edge overview of all aspects of juvenile delinquency with a sociological focus As Simon Dinitz Ohio State University says Clemens Bartollas is genuinely interested in delinquents and in all those who work with and have contact with delinquents This book reflects Professor Bartollas abiding intellectual and emotional commitment to understanding and reducing delinquency as well as ameliorating the personal and social ills that generate the massive delinquency problems not only in the United States but also in nearly all modern industrial nations Every edition is thoroughly updated to reflect current research Some exciting new updates in this edition A new emphasis on the importance of human agency or the interpretation and meaning that delinquents themselves bring to their social world as hot area within juvenile delinquency research Coverage of delinquency across the life course one of the most promising and exciting perspectives in studying delinquency today can be found in each chapter Increased focus on race and delinquency especially in Chapters 7 and 10 allows for an examination of how racial factors affect the definition handling and processing of juvenile delinquents An updated Chapter 10 Gang Delinquency provides more explanation of female gangs Increased coverage of international juvenile justice in Chapters 14 and 15

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