USN | | | | | | | | | | 15CS32

Third Semester B.E. Degree Examination, Dec.2016/Jan.2017
Analog and Digital Electronics

Time: 3 hrs.   Max. Marks: 80

Note: *Answer FIVE full questions, choosing one full question from each module.*

Module-1

1   a. Explain the working of N – channel DE – MOSFET, with the help of neat diagram.
                                                                                   (08 Marks)
    b. With circuit diagram, explain any two application of FET.   (06 Marks)
    c. How CMOS can be used as inverting switch?   (02 Marks)

OR

2   a. Design a voltage divider bias network using a DEMOSFET with supply voltage $V_{DD} = 16V$, $I_{DSS} = 10mA$ and $V_P = 5V$ to have a quiescent drain current of 5mA and gate voltage of 4V. (Assume the drain resistor R_D to be four times the source resistor R_S and $R_2 = 1k\Omega$).
                                                                                   (08 Marks)
    b. Explain the performance parameters of Op-amp.   (08 Marks)

Module-2

3   a. Minimize the following Boolean function using K – map method
       $f(a, b, c, d) = \Sigma m (5, 6, 7, 12, 13) + \Sigma d (4, 9, 14, 15)$.   (06 Marks)
    b. Apply Quine Mc – Clusky method to find the essential prime implicants for the Boolean expression $f(a, b, c, d) = \Sigma m (1, 3, 6, 7, 9, 10, 12, 13, 14, 15)$.   (10 Marks)

OR

4   a. A digital system is to be designed in which the month of the year is given as input is four bit form. The month January is represented as `0000`, February as `0001` and so on. The output of the system should be `1` corresponding to the input of the month containing 31 days or otherwise it is "0". Consider the excess number in the input beyond `1011` as don't care conditions for the system of four variables. (ABCD) find the following :
       i) Write truth table and Boolean expression in SOP Σm and POS ΠM form.
       ii) Using K – map simplify the Boolean expression of canonical mini term form.
       iii) Using Basic gates implement logical circuit.   (10 Marks)
    b. What is Hazard? List the type of hazards and explain static 0 and static – 1 hazard.
                                                                                   (06 Marks)

Module-3

5   a. Implement the following function using 8:1 multiplexer $f(a, b, c, d) = \Sigma m (0, 1, 5, 6, 8, 10, 12, 15)$.
                                                                                   (06 Marks)
    b. Realize the following function using 3:8 decoder
       i) $f(a, b, c) = \Sigma m (1, 2, 3, 4)$ ii) $f(a, b, c) = \Sigma m(3, 5, 7)$.   (04 Marks)
    c. What is Magnitude Comparator? Explain 1 bit magnitude comparator.   (06 Marks)

OR

6   a. Design 7 – segment decoder using PLA.   (08 Marks)
    b. Differentiate between Combinational and Sequential circuit.   (04 Marks)

M Mosston

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Foundations of Software Testing: For VTU ,2013   **Respect** Davy Mohan, Aryan a rich Bengali boy grows up seeing his family s wealth take a plunge due to his father s ill health The land mafia tries to grab hold of the last piece of land the family owns He stands up against all odds to fight them and to protect his family s land which is the last hope to secure a decent future for the family only to discover an ugly truth that the family he had been protecting has turned their back on him at his most crucial time of need During this time he loses his friends and the girl he loves as she falls out of love with him and falls into the arms of her best friend Depressed hurt and hateful with vengeance he decides to take on the people who brought him to this stage of ruin in his life including his one time love   Basic Electronics - Second Edition B Basavaraj,2009-11-01 This is an established textbook on Basic Electronics for engineering students It has been revised according to the latest syllabus The second edition of the book includes illustrations and detailed explanations of fundamental concepts with examples The entire syllabus has been covered in 12 chapters   *Electric Motors* Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of electric motors is well known in the various engineering fields The book provides comprehensive coverage of the various types of electric motors including d c motors three phase and single phase induction motors synchronous motors universal motor a c servomotor linear induction motor and stepper motors The book covers all the details of d c motors including torque equation back e m f characteristics types of starters speed control methods and applications The book also covers the various testing methods of d c motors such as Swinburne s test brake test retardation test field test and Hopkinson s test The book further explains the three phase induction motors in detail It includes the production of rotating magnetic field construction working effect of slip torque equation torque ratios torque slip characteristics losses power flow equivalent circuit effect of harmonics on the performance circle diagram and applications This chapter also includes the discussion of induction generator The book teaches the various starting methods and speed control methods of three phase induction motors The book incorporates the explanation of various single phase induction motors The chapter on synchronous motor provides the detailed discussion of construction working principle behavior on load analysis of phasor diagram Vee and Inverted Vee curves hunting synchronous condenser and applications The book also teaches the various special machines such as single phase commutator motors universal motor a c servomotor linear induction motor and stepper motors The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting   *Electromagnetic Field Theory* Uday A. Bakshi,Late Ajay V. Bakshi,2020-11-01 The comprehensive study of electric magnetic and combined fields is nothing but electromagnetic engineering Along with electronics electromagnetics plays an

important role in other branches The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students The knowledge of vector analysis is the base of electromagnetic engineering Hence book starts with the discussion of vector analysis Then it introduces the basic concepts of electrostatics such as Coulomb s law electric field intensity due to various charge distributions electric flux electric flux density Gauss s law divergence and divergence theorem The book continues to explain the concept of elementary work done conservative property electric potential and potential difference and the energy in the electrostatic fields The detailed discussion of current density continuity equation boundary conditions and various types of capacitors is also included in the book The book provides the discussion of Poisson s and Laplace s equations and their use in variety of practical applications The chapter on magnetostatics incorporates the explanation of Biot Savart s law Ampere s circuital law and its applications concept of curl Stoke s theorem scalar and vector magnetic potentials The book also includes the concept of force on a moving charge force on differential current element and magnetic boundary conditions The book covers all the details of Faraday s laws time varying fields Maxwell s equations and Poynting theorem Finally the book provides the detailed study of uniform plane waves including their propagation in free space perfect dielectrics lossy dielectrics and good conductors The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students Each chapter is well supported with necessary illustrations and self explanatory diagrams The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting *Metal Casting and Welding* Anup Goel,2020-12-01 Metal casting is the process of producing metal or alloy component parts In casting the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusion Many different energy sources can be used for welding including gas flame electric arc a laser and electron beam friction and ultrasonic Our hope is that this book through its careful explanations and concepts and its use of sketches and figures bridges the gap between knowledge and proper application of that knowledge Aerodynamics 1 Mr. Rohit Manglik,2023-09-23 Introduces the principles of aerodynamics including airflow lift drag and basic aircraft structures relevant to flight performance Digital Image Processing : Practical Implementation With MATLAB Dr. A Chrispin Jiji,Dr. Y R Annie Bessant,Dr. S. Absa,Dr. S. Maria Seraphin Sujitha,2023-12-30 The book Digital Image Processing Practical Implementation with MATLAB is strictly based on the syllabus prescribed by V T U mainly for the students of 7TH semester B E Electronics and Communication Engineering and Telecommunication Engineering It covers the theoretical and implementation using MATLAB This book deals with 5 Modules The first module deals with the

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method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

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