

Time: 3 Hours

Max. Marks: 60

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit.
Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

5 x 4 marks = 20

- 1.g) Explain the principle and applications of Proximity and light sensors. [4]
- b) Expand FET. Sketch its symbol. Mention its characteristics. [4]
- c) Differentiate between pneumatic systems and hydraulic systems. [4]
- d) Explain how is microcontroller different from microprocessor? [4]
- e) Describe any two analog to digital converters ADCs. [4]

PART - B

5 x 8 marks = 40

- 2.a) Explain the various elements of a typical mechatronics system. [4+4]
- b) Explain open loop and closed loop control systems with sketches. [4+4]

OR

- 3.a) Differentiate between sensors and transducers. [4+4]
- b) Explain with sketch the working principle of instruments for measurement of (i) Liquid level (ii) Temperature [4+4]

- 4. Explain the following: [3+3+2]
 - a) P-N Junction Diode
 - b) Signal conditioning process
 - c) Applications of amplifiers.

OR

Define MEMS? What are the types and applications of MEMS? [8]

- 6.a) Explain the functions of Relief valve and Direction control valve. [4+4]
- b) With a neat sketch explain working principle of solenoid. [4+4]

OR

Explain the working of Electro-Hydraulic actuating system with a neat sketch. [8]

- 8. With the help of family functional diagram explain the working of any microcontroller. [8]

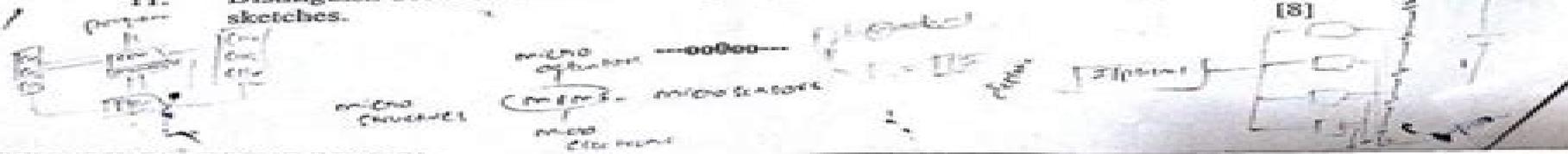
OR

9. What is the role of PLC in digital systems? With a neat sketch explain the architecture of PLC. [8]

- 10. What is SCADA? Explain the SCADA's schematic overview and explain it's common system components. [8]

OR

- 11. Distinguish between traditional design approach and mechatronics approach with sketches. [8]



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S. Rao,R. Durgaiah



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Fluid Mechanics And Machinery Durgaiah D. Rama, 2007 This Book Presents A Thorough And Comprehensive Treatment Of Both The Basic As Well As The More Advanced Concepts In Fluid Mechanics The Entire Range Of Topics Comprising Fluid Mechanics Has Been Systematically Organised And The Various Concepts Are Clearly Explained With The Help Of Several Solved Examples Apart From The Fundamental Concepts The Book Also Explains Fluid Dynamics Flow Measurement Turbulent And Open Channel Flows And Dimensional And Model Analysis Boundary Layer Flows And Compressible Fluid Flows Have Been Suitably Highlighted Turbines Pumps And Other Hydraulic Systems Including Circuits Valves Motors And Ram Have Also Been Explained The Book Provides 225 Fully Worked Out Examples And More Than 1600 Questions Including Numerical Problems And Objective Questions The Book Would Serve As An Exhaustive Text For Both Undergraduate And Post Graduate Students Of Mechanical Civil And Chemical Engineering Amie And Competitive Examination Candidates As Well As Practising Engineers Would Also Find This Book Very Useful

Operations Research N.V.S Raju, 2019-09-03 This book Operations Research Theory and Practice provides various concepts theoretical and practical knowledge and develops the techno managerial skills in the field of engineering All the angles and approaches of operations applicable to both industrial and institutional needs are presented It also provides an insight into the historical development of Operations Research Examples and problems from usual situations that occur in industries are presented wherever necessary Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

Engineering Mechanics S. Rao, R. Durgaiah, 2005-11 This book covers all the topics essential for a first course in Engineering Mechanics Written keeping in mind the needs of undergraduate engineering students and those appearing for competitive examinations it covers the theoretical concepts and operations solid mechanics in a lucid and well illustrated manner

COMPUTER AIDED DESIGN AND MANUFACTURING LALIT NARAYAN, K., MALLIKARJUNA RAO, K., SARCAR, M.M.M., 2008-05-05 The impact of the technology of Computer Aided Design and Manufacturing in automobile engineering marine engineering and aerospace engineering has been tremendous Using computers in manufacturing is receiving particular prominence as industries seek to improve product quality increase productivity and to reduce inventory costs Therefore the emphasis has been attributed to the subject of CAD and its integration with CAM Designed as a textbook for the undergraduate students of mechanical engineering production engineering and industrial engineering it provides a description of both the hardware and software of CAD CAM systems The Coverage Includes Principles of interactive computer graphics Wireframe surface and solid modelling Finite element modelling and analysis NC part programming and computer aided part programming Machine vision systems Robot technology and automated guided vehicles Flexible manufacturing systems Computer integrated manufacturing Artificial intelligence and expert systems Communication systems in manufacturing PEDAGOGICAL FEATURES CNC program examples and APT program examples Review questions

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Properties of Soils E. S. Reddy,2002 This Book Highlights The Procedures For 30 Tests Used To Measure The Engineering
Properties Of Soil In Both Laboratory And Field Including Dynamic Testing Of Soils All The Test Procedures Are Based On
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