

PART B — (5 × 16 = 80 marks)

11. (a) Explain the static and dynamic characteristics of transducers.

Or

- (b) (i) Explain the principles and working of Hall Effect Sensor. (8)  
(ii) What are the basic elements of a closed loop system? Explain. (8)

12. (a) Explain with neat sketch the architecture of 8085 microprocessor.

Or

- (b) Write short notes on :

- (i) Addressing modes. (8)  
(ii) Instruction set of 8085 microprocessor. (8)

13. (a) Explain with neat sketch microprocessor based temperature control system by using 8255PPI.

Or

- (b) Explain with neat sketch microprocessor based stepper motor control system by using 8255PPI.

14. (a) Explain the architecture of a PLC and explain about its elements.

Or

- (b) Write short notes on PLC for the following :

- (i) Data Movement  
(ii) Data Comparison.

15. (a) What are the roles of sensors in car engine management system? Explain with a block diagram.

Or

- (b) Design a robot to pick and place the object and comment on the various elements in the system.

# Anna University Question Paper Mechatronics

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**Mechatronics 2019: Recent Advances Towards Industry 4.0** Roman Szewczyk, Jiří Krejsa, Michał Nowicki, Anna Ostaszewska-Liżewska, 2019-08-28 This book gathers papers presented at Mechatronics 2019 an international conference held in Warsaw Poland from September 16 to 18 2019 The contributions discuss the numerous multidisciplinary technological advances in the field of applied mechatronics that the emerging Industry 4 0 has already yielded Each chapter presents a particular example of interdisciplinary theoretical knowledge numerical modelling and simulation or the application of artificial intelligence techniques Further the papers show how both software and physical devices can be incorporated into mechatronic systems to increase production efficiency and resource savings The results and guidelines presented here will benefit both scientists and engineers looking for solutions to specific industrial and research problems

**A Textbook of Engineering Materials and Metallurgy** A. Alavudeen, N. Venkateshwaran, J. T. Winowlin Jappes, 2006

**Digital Heritage** Marinos Ioannides, Nadia Magnenat-Thalmann, Eleanor Fink, Roko Zarnic, Alex-Yianing Yen, Ewald Quak, 2014-11-12 This book constitutes the refereed proceedings of the 5th International Conference on Digital Heritage EuroMed 2014 held in Limassol Cyprus in November 2014 The 84 full and 51 short papers presented were carefully reviewed and selected from 438 submissions They focus on the interdisciplinary and multi disciplinary research concerning cutting edge cultural heritage informatics physics chemistry and engineering and the use of technology for the representation documentation archiving protection preservation and communication of Cultural Heritage knowledge Creating a Better

World Anna Clarke, 2009 *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's

Who, 2007-12 Proceedings of the 1995 IEEE IECON: Signal processing and control, Robotics vision and sensors,

Emerging technologies, and Factory automation, 1995

**Forthcoming Books** Rose Army, 1996-06 *The British National*

*Bibliography* Arthur James Wells, 1995

*CONTROL ENGINEERING* K.P. Ramachandran, 2011-06-01 Market\_Desc Primary

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