

**Pre- University Examination**

Level: Bachelor

Programme: B.C.A

Course: Microprocessor and Computer Architecture

Semester: II\_ Spring

Year : 2024

Full Marks: 100

Pass Marks: 45

Time : 3hrs.

*Candidates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.*

Attempt all the questions.

1. a) What is microprocessor? What are the basic components of computer system? 7  
b) Draw the timing diagram for MVI and explain. 8
2. a) What are the different instructions in 8085. 8  
b) Write an ALP in 8085 to add 10 bytes of data and store in memory. 7
3. a) Draw the functional block diagram of 8086 and describe in brief. 8  
b) What are the different types of registers used in microprocessor? 7
4. a) Explain about microprogrammed control unit. 8  
b) How would you sequence microinstructions? 7
5. a) Using booth's algorithm, multiply -9 and 6. 8  
b) Interface 2KB and 4KB RAM with 8085 microprocessor. 7
6. a) How is DMA better than programmed I/O and interrupt driven I/O. 8  
b) Explain about Flynn's taxonomy. 7
7. Write short notes on any two: 2×5
  - a) Signed number representation
  - b) Cache memory
  - c) 8086 Vs 8085

# Advanced Microprocessor Question Answer Diploma

**Lei Huang**

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**Advanced Microprocessors, II** Amar Gupta,1987    *Electronics Communication Engineering* Manoj Dole,2019-02-19  
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**of Speech Tech'85** ,1985    *Computerworld* ,1977-01-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network    Clinical Engineering Handbook Joseph Dyro,2004-09-15 As the biomedical engineering field expands throughout the world clinical engineers play an evermore important role as translators between the medical engineering and business professions They influence procedure and policy at research facilities universities as well as private and government agencies including the Food and Drug Administration and the World Health Organization The profession of clinical engineering continues to seek its place amidst the myriad of professionals that comprise the health care field The Clinical Engineering Handbook meets a long felt need for a comprehensive book on all aspects of clinical engineering that is a suitable reference in hospitals classrooms workshops and governmental and non governmental organization The Handbook s thirteen sections address the following areas Clinical Engineering Models of Clinical Engineering Practice Technology Management Safety Education and Training Design Manufacture and Evaluation and Control of Medical Devices Utilization and Service of Medical Devices Information Technology and Professionalism and Ethics The Clinical Engineering Handbook provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice

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The challenge of continuing development New horizons Applying microprocessor technology Device architecture Product incentives An information policy Designing manufacturing and interfacing The wafer Quality assurance Engineering premises Interconnecting and interfacing Firmware and microcode Computer aided design A CAD methodology Robotics Tuning the manufacturing capability A process in control     **Proceedings** ,2005     **Popular Electronics** ,1978     **Journal of the**

**Audio Engineering Society** Audio Engineering Society,1986 Some issues include Directory of members     **Dissertation Abstracts International** ,2004     21st Application of Computers and Operations Research in the Mineral Industry Alfred

Weiss,1989     **Computerworld** ,1978-08-07 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network

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