Exam. Code: 208603 Subject Code: 5249

M.Sc. I.T. 3rd Semester

MIT-305:	MICROPROCESSOR	& ITS	APPLICATIONS
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Time	Allowed—3	Hours]	[Maximum	Marks—100

Note: — Attempt any *five* questions. All questions carry equal marks.

- 1. (a) Discuss the evolution of Intel's Microprocessors since 1972.
 - (b) Differentiate between Programmable and Embedded Microprocessor.
- 2. (a) Explain software architecture of 8088 microprocessor.
 - (b) Differentiate between even-address boundary and odd-address boundary. 10
- 3. (a) What is the word length of 8088's physical address? What address elements are combined to form a physical address?
 - (b) Discuss Status Registers of 8088 microprocessor.
 Explain various functions of flags associated with it.
 - (c) What is stored at address FFFF₁₆? 4

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scribe the way	e form o	f system o	clock of 808
croprocessor.	Depict	its relati	onship with
ipheral clock	with the	help of a	diagram.
	•		pheral clock with the help of a

(b) Draw the block diagram of a maximum-mode: configuration of 8088 and 8086 respectively.

- 5. (a) Explain minimum-mode memory control signals in detail.
 - (b) Explain. Write bus cycle of 8-bit data in a minimum-mode 8086 based microcomputer system.
- 6. What are different types of I/O? What type of I/O is in use when peripheral devices are mapped to the 8088's I/O address space ? 20
- What are the various types of RAM? Draw a block 7. diagram of Static RAM. Discuss SRAM Read and Write cycle operations with the help of an example. 20

What do you mean by an Interrupt? What are its 8. various instructions? Explain minimum-mode 8088 system external hardware-interrupt interface.