

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER- V(OLD) EXAMINATION – SUMMER 2019****Subject Code:150701****Date:19/06/2019****Subject Name:Advance Processors****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is segmentation? Advantages of it. List out four segments of 8086 with its purpose. **07**  
(b) Draw and explain architecture of 8086. **07**
- Q.2** (a) What is the difference between minimum and maximum mode of 8086? **07**  
(b) Write 8086 program to divide 16-bit number by 8-bit number. **07**
- OR**
- (b) Write 8086 program to transfer memory block from one location to another using string instructions. **07**
- Q.3** (a) Explain memory bank in details. **07**  
(b) What is interrupt? Explain IVT in detail. **07**
- OR**
- Q.3** (a) What is the difference between instructions and directives? Explain following directives : ASSUME, PTR **07**  
(b) Explain parameter passing methods in 8086. **07**
- Q.4** (a) Draw and explain the block diagram of 80286. **07**  
(b) Explain paging in details. **07**
- OR**
- Q.4** (a) What is descriptor? Explain general format of descriptor. **07**  
(b) Explain flag register and machine status word of 80286. **07**
- Q.5** (a) What are the major advantages of 80486 over 80286? Draw block diagram of 80486. **07**  
(b) Explain near and far procedure of 8086. **07**
- OR**
- Q.5** (a) Write short note on MMX and hyper threading. **07**  
(b) Difference between RISC and CISC architecture. **07**

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