

GUJARAT TECHNOLOGICAL UNIVERSITY
BE –SEMESTER–V (OLD) • EXAMINATION WINTER 2017

Subject Code: 150701

Date: 20-11-2017

Subject Name: Advance Processors

Time: 10:30 am to 01:00 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) Draw 8086 architecture. Enlist and explain tasks perform by two basic units of 8086. **07**
(b) Explain Minimum mode operation of 8086. **07**
- Q.2** (a) Define Segmentation. Advantages of Segmentation. List out four segments of 8086 with its purpose. **07**
(b) Write 8086 program to find factorial of number. **07**
- OR**
- (b) Write 8086 program to transfer the 8 data bytes' block of data to new location. **07**
- Q.3** (a) Explain below instructions **07**
1. MUL 2. LOOP 3. MOVSB 4. ADD
(b) What is interrupt? Explain IVT in details with proper diagram. **07**
- OR**
- Q.3** (a) Explain below directives **07**
1. ASSUME 2. PTR 3. OFFSET 4. LENGTH
(b) Explain the parameter passing methods with example. **07**
- Q.4** (a) Enlist and explain four functional unit of 80286 with diagram. **07**
(b) Explain Paging mechanism in details. **07**
- OR**
- Q.4** (a) Explain Protected Virtual Address Mode of 80286. **07**
(b) What is descriptor? Explain LDT and GDT in details. **07**
- Q.5** (a) Explain MMX and hyper threading. **07**
(b) Compare RISC and CISC. **07**
- OR**
- Q.5** (a) Compare real mode, protected mode and virtual 8086 mode in 80386. **07**
(b) Draw and explain SUN SPARC processor. **07**
