

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 150701

Date: 08/05/2017

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.
- 4.

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|------------|------------|--|------------|
| Q.1 | (a) | Explain Flag Register diagram. | 04 |
| | | | 03 |
| | (b) | Describe Hyper Threading Correct explanation | 07 |
| Q.2 | (a) | List of all segment Explanation of each | 02 |
| | | | 05 |
| | (b) | Correct explanation with examples | 07 |
| | | OR | |
| | (b) | Explain the following instructions: (Each One Mark)
1) LDS 2) PUSHF 3) DAA 4) CLD 5) SAR 6) TEST 7) RET | 07 |
| Q.3 | (a) | Bit Manipulation String instructions | 3.5 |
| | | | 3.5 |
| | (b) | Correct program | 07 |
| | | OR | |
| Q.3 | (a) | loop instructions with examples. | 07 |
| | (b) | Correct program | 07 |
| Q.4 | (a) | Answer the following. 1. Compare the procedures and ISRs.
2. Interrupt priorities in 8086. / Each 3.5 Marks | 07 |
| | (b) | Correct explanation | 07 |
| | | OR | |
| Q.4 | (a) | Correct explanation | 07 |
| | (b) | Explain Context Switching and Task Scheduling with example./ Each 3.5Marks | 07 |
| Q.5 | (a) | Correct explanation | 07 |
| | (b) | pin diagram of 80286 microprocessor.
explanation 80286 protected-mode operation. | 03 |
| | | | 04 |
| | | OR | |
| Q.5 | (a) | Describe Reentrant and Recursive procedures./ Each 3.5Marks | 07 |
| | (b) | Correct Explanation | 07 |
