

QUESTION PAPER

Name of the Examination: FALL 2023-2024 – CAT-2

Course Code: ECE2015

Course Title: Computer Architecture

Set number: 2

Date of Exam: 16/10/2023 (An)(B2)

Duration: 90 min

Total Marks: 50

Instructions:

1. Assume data wherever necessary.
 2. Any assumptions made should be clearly stated.
- Q1.** Divide the unsigned numbers 15 by 7 using restoring algorithm. **(10M)**
- Q2.** Divide 11 by 5 using non-restoring algorithm. **(10M)**
- Q3.** Explain each step with neat flowchart diagram for floating point multiplication and division. **(15M)**
- Q4.** Explain each part of 8086 architecture with neat diagram. **(15M)**

QP MAPPING

| Q. No. | Module Number | CO Mapped | PO Mapped | PEO Mapped | PSO Mapped | Marks |
|--------|---------------|-----------|-----------|------------|------------|-------|
| Q1 | 2 | 2 | 1,2,3 | 2 | 1 | 10 |
| Q2 | 2 | 2 | 1,2,3 | 2 | 1 | 10 |
| Q3 | 2 | 2 | 1,2,3 | 2 | 1 | 15 |
| Q4 | 3 | 3 | 1,2,3 | 2 | 1 | 15 |