

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - III COMPUTER SCIENCE & ENGINEERING AI&ML :
WINTER : 2023
SUBJECT : COMPUTER ORGANIZATION & MICROPROCESSOR

Day : Monday

Date : 11/12/2023

W-23938-2023

Time : 10:00 AM-01:00 PM

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1 Differentiate between Computer Organization and Architecture (10)
- OR
- Q.1 List the features of 8086 microprocessor. (10)
- Q.2 Draw the flowchart of Non-Restoring Division Algorithm and solve for (6) / (2) using the Non – Restoring algorithm. (10)
- OR
- Q.2 Express (-10125)₁₀ in IEEE 754 single and double precision standard of floating point number representation. (10)
- Q.3 Differentiate between Hardwired Control Unit and Micro-programmed Control Unit. (10)
- OR
- Q.3 Describe Micro-programmed Control Unit with the help of neat labelled diagram. (10)
- Q.4 Explain the different memory allocation policies. (10)
- OR
- Q.4 Describe various Cache memory mapping technique. (10)
- Q.5 Explain the working of DMA. (10)
- OR
- Q.5 Write short note on Programmed I/O. (10)
- Q.6 Explain the different pipelining hazard. (10)
- OR
- Q.6 Describe SCSI with neat diagram. (10)

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