

Both shift

GOVERNMENT POLYTECHNIC MUMBAI

EVEN TERM:2023-24

UNIT TEST :I

PROGRAMME: INFORMATION TECHNOLOGY

COURSE NAME: MED

COURSE CODE: IT19R304

SEMESTER: IV

MAX MARKS: 20

TIME: 1Hour

- Q1) Attempt the following (3x2=06)
- a) State four important features of 8051 microcontroller. (CO1, U)
  - b) Define the term BUS related to microcontroller and list different buses used in microcontroller. (CO1, A)
  - c) Write any four derivatives of 8051 microcontroller. (CO1, U)

- Q2) Attempt the following (4x2=08)
- a) Draw and explain pin configuration of 8051 microcontroller. (CO1, A)
- OR
- a) Write types of addressing modes with examples (CO2, A)
  - b) Draw and explain block diagram of 8051 microcontroller (CO1, U)

- OR
- b) Write assembly language program for addition, subtraction, multiplication and division (CO2, A)

- Q3) Attempt any two of following (3x2=06)
- a) Write difference between microprocessor and microcontroller (CO1, U)
  - b) Draw and explain memory organization of 8051 microcontroller (CO1, A)
  - c) Write two example of each instruction (CO2, A)
- i) Logical instruction ii) Data transfer instruction iii) Branching instruction

CO	R	U	A	TOTAL
CO1	0	11	9	20
CO2	0	0	11	11
TOTAL	0	11	20	31

\*\*\*\*\*All the Best\*\*\*\*\*