

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

Q 1) 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)

Q 2) 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)

Q 3) 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

i) Logical instruction ii) Data transfer instruction iii) Branching instruction (CO2,A)

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

All the Best