AG AG AG AG AG AG A

R18 Code No: 155CF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, February - 2022 MICROPROCESSORS AND MICROCONTROLLERS (Common to EEE, EIE) Max. Marks: 75 Time: 3 hours Answer any five questions All questions carry equal marks Draw the internal architecture of 8086 microprocessor and explain the function of each block in detail. List out different string manipulation instructions used in 8086 microprocessor and b) [8+7]explain each one in detail. Explain the various addressing modes of 8086 microprocessor with examples. [15] 2. Discuss about I/O ports of 8051 microcontroller. 3.a) Explain PUSH and POP instructions with examples. (b) Explain the programming timer interrupts of 8051 microcontroller. [15] 4. Explain the steps involved in the interfacing of key board to 8051. [15] 5. Write short notes on serial communication standards. 6.a) Explain the interfacing procedure of an 8-bit ADC with 8086 microprocessor. b) Describe various modes of operation of ARM processor. 7.a) [8+7]What are the salient features of ARM instruction set? b) List the main features of OMAP processor. With a neat diagram, explain the 8. architecture of OMAP processor. ---ooOoo---