C14-CM-404/C14-IT-404 4452 BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL-2017 DCME-FOURTH SEMESTER EXAMINATION MICROPROCESSORS Time: 3 hours ] 3×10=30 Instructions : (1) Answer all question should be brief and straight to the point and xceed five simple sentences 2. Define the terms (a) compiler and (b) interpreter. List the groups of 8086 instruction set What is an interrupt? Write an assembly language program to reverse an 8-bit number. 7. Differentiate between subroutine and macro. 8. Write about operating modes of 8255. 9. List the various peripheral chips 10. List the features of 80286. | Contd...

PART-B 10×5=50 Instructions: (1) Answer any five questions. (2) Each question carries ten marks. (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer. 11. Draw the pin diagram of 8086 and explain the function of each 3+7=10 12. Explain arithmetic and logical instructions 13. What is an addressing mode? Explain various 8086 addressing 2+8=10 14. Explain various interrupt groups supported by 8086. 15. (a) Explain CALL and RETURN instructions. (b) Write an assembly language program (ALP) to find the Draw and explain the block diagram of 8279 keyboard/display controller. (a) Explain DMA data transfer scheme. (b) Explain the block diagram of 8251 USART. 18. Draw the block diagram and explain the architecture of 80486 microprocessor. /4452 \* AA7(A)—PDF

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