

SB-0611

First Year B. Sc. Examination March/April - 2011

Electronics: Paper - II

(Computer Science) (New Course)

Time: 3 Hours] [Total Marks: 70 **Instructions:** (1) Seat No.: નીચે દર્શાવેલ 👉 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of 👉 signs on your answer book. Name of the Examination: F. Y. B. Sc. Name of the Subject: Electronics - 2 (Computer Science) (New) Student's Signature → Section No. (1, 2,....): Nil Subject Code No. : All questions are compulsory (2) Figures to the right indicate full marks (3)Assume data wherever necessary (4) Write Very Short Answers: 1 14 When zero flag becomes '1'? Explain the use of DB and DW in assembler. (2) If the CS = 1343 and IP = 0100, what is the physical address? (4) What is the special importance of CX register? Explain the instructions JZ and JNZ. Explain the rotate instructions giving examples. Explain how RET instruction works. (7)2 Explain the term addressing modes. Discuss 8 any two addressing modes in detail. (b) Explain the concept of memory segmentation 6 and its advantages. OR. 2 Discuss the arithmetic group of instructions. Show (a) 8 how BCD numbers are handled. Discuss the flags of 8086. Write a program to (b) 6 calculate the length of a string.

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SB-0611]

3 What do you mean by a microprocessor? (a) Discuss the architecture of 8086 microprocessor. Explain the importance of bus interface unit. (b) What are effective addresses and physical addresses explain giving examaples. 3 What are procedure call? Explain using examples? (a) Write a procedure to calculate the number of words in (b) a string. 4 (a) What are Assembler directives? Explain any two with 8 examples. (b) Write a program to find the maximum and minimum 6 values from an array numbers. OR Discuss the conditional jump instructions supported 4 8 (a) by 8086. (b) Write a program to calculate the number of 1's 6 in register AX. Write short notes: (any two) 5 14 Logic instructions (1) Assembly language (2) (3) Pin diagram of 8086 Uses of Stack Segment.

SB-0611] 2 [300]