Seat No:

Enrollment No:____

PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE M.Sc., Summer 2018-19 Examination

Semester: 4 Date: 01/04/2019

Subject Code: 11204251 Time: 02:00pm To 04:30pm

Subject Name: Microprocessor-II and Microwaves Total Marks: 60

Instructions:

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

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Q.1. A) Answer the following question	(08)
(a) Explain data transfer instructions and write a program to add 2222 H and AAAA H.	(00)
(b) Write difference between CALL-RET instructions.	
Q.1. B) Answer the following questions (Any two)	
(a) Answer following	(04)
1. Explain LXI D, AB12 H and LDA 2034 H	
2. Discuss subroutine operation briefly.	
(b) Discuss JUMP and CALL instruction with example	(04)
(c) Explain 8 bit BCD to binary conversion	(04)
Q.2. A) Answer the following questions.	
(a) Answer following	(04)
1. What is the content of A after performing instruction MVI A, 0F H and XRI A, 50 H	
2. If the content of A is 88H and CY is zero what is the content of A after performing instruction RLC	
(b) Explain 8 –bit Addition operation in 8085 processor with example	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Discuss logical AND, OR and NOT operation with example	(03)
(b) Write a program to add 32 H and 42 H and display result on Port A.	(03)
(c) Write a program to multiply 02H and 04 H data.	(03)
Q.3. A) Essay type/Brief note (4x2) (Each of 04 marks)	(08)
(a) Write a short note on Klystrons.	
(b) Write a short note on Impatt diode.	
Q.3. B) Answer the following questions (Any two)	
(a) Discuss various modes of operation in Gunn Diode.	(04)
(b) Discuss binary to unpacked BCD conversion with example.	(04)
(c) Give a difference between E-plane tee, H-plane tee.	(04)
Q.4. A) Answer the following questions.	(0.1)
(a) Discuss electron path in cavity Magnetron.	(04)
(b) Derive a equation of Power of Microwave	(04)
Q.4. B) Answer the following questions (Any two)	(02)
(a) Write a short note on helix traveling wave tube wave modes	(03)
(b) Explain 8 bit Subtraction operation in 8085 with necessary examples	(03)
(c) Explain Velocity modulation with appropriate equation	(03)