$(10 \times 2 = 20)$

QP CODE: 19101562

BSC DEGREE (CBCS) EXAMINATION, MAY 2019

Fourth Semester

B.Sc Computer Science Model III

Complementary Course - EL4CMT09 - ELECTRONICS - MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING

2017 ADMISSION ONWARDS

B6518A26

Maximum Marks: 80

Part A

Answer any ten questions.

Each question carries 2 marks.

- 1. What is the difference between a microprocessor and a CPU?
- 2. What do you mean by addressing mode.
- 3. List the features and functions of BIU unit.
- top-down design ?
- 5 List the IO instructions of 8086.
- 6. Which are the assembler directives used to define a procedure?
- 7. How do you pass parameters to a macro?
- 8. Which are the interrupt types in 8086 assigned for (a) system call services (b) users ?
- 9. What are the two ways in which data transfer can occur in handshake mode of 8255?
- 10. Give a brief descrition on Adress Unit of 80286
- 11. Write short notes on protected virtual mode of 80286
- 12. Explain RISC Characteristics

Part B Answer any **six** questions.

Each question carries 5 marks.

- 13. Discuss how the internal data operations are carried out in 8085 microprocessor with examples.
- 14. Explain the peripheral or externally initiated operations
- 15. Write a short note on REPEAT- UNTIL Programs. How a problem is defined and implemented using REPEAT- UNTIL.

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Reg No : Name :

Time: 3 Hours

- 4. What do you mean by bottom -up design in assembly language.? What is the main difference between bottom-up and



- 16. Write a recursive procedure to calculate factorial of 3?
- 17. Explain the control word and status word format of 8254?
- 18. Mention the features of 8259?
- 19. Writes notes on 80286 modes
- 20. Diffrentiate on 80386 signals
- 21. Writes notes on 80486 Functional units

Part C

Answer any two questions.

Each question carries 15 marks.

- 22. Explain the architecture of 8085 with a focuss on its functional units
- 23. Explain the internal architecture of 8086 with a focuss on its functional units.
- 24. (a) With neat block diagram the explain the functions of 8257.
 - (b) Explain DMA transfer timing diagram.
- 25. Explain 80386 architecture with block diagram

(2×15=30)

(6×5=30)