Roll No. .....

Total Pages : 4

2063

II Year (T.D.C.) Science Examination, 2016

COMPUTER SCIENCE

(Computer Organization)

Paper–III

Time Allowed : Three Hours

Maximum Marks : 50

PART–A [Marks : 10

Answer all questions (50 words each).

All questions carry equal marks.

PART–B [Marks : 25

Answer **five** questions (250 words each), selecting **one** from each Unit. All questions carry equal marks.

PART–C [Marks : 15

Answer any **two** questions (300 words each).

All questions carry equal marks.

P. T. O.

PART–A

1. (i) What are direct and indirect addresses ?

(ii) Why Buses are used ?

(iii) What is effective address ?

(iv) Define Pipelining.

(v) What is the main function of Input device ?

(vi) What is Handshaking ?

(vii) What is Cache memory ?

(viii) Define Virtual memory and its Primary function.

(ix) What is 8085 Microprocessor ?

(x) What is Assembly Language Programming ?

PART–B

UNIT–I

2. Draw the block diagram of Computer System and explain its components in detail.

3. What is Binary adder and Binary Incrementer ? Explain.

UNIT–II

4. Explain Software and Hardware Interrupts and give examples.

5. What are one address and two address Instructions ? Elaborate.

UNIT–III

6. Give details of addition and subtraction with signed Magnitude Data by giving examples.

7. What is asynchronous Data Transfer ? Explain.

UNIT–IV

8. What is RAM and types of RAM ? Give details of each.

9. Explain ROM and its all types with description.

UNIT–V

10. How the Assembly Language Programs are executed within the system ?

11. Explain any five Assembly Language instructions in detail by providing example.

PART–C

12. Explain Instruction execution cycle step by step with diagram.

13. What is instruction Pipelining ? Explain.

14. Explain DMA in detail.

15. Explain Virtual memory and its advantages.

16. Give the detailed description of any Assembly Language Program and explain the Assembly Language.