Roll No. 0247315

BCA (Part-I)

Comp.Org.

135

101841

B.C.A. (Part-I) EXAMINATION, 2019

(Faculty of Science)

(Three Year Scheme of 10+2+3 Pattern)

COMPUTER ORGANIZATION - 135

Time Allowed: Three Hours

Maximum Marks: 100

No supplementary answer-book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer-book only.

All the parts of one question should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.

Write your roll number on question paper before start writing answers of questions.

PART-I

Each question is of 2 marks. Word limit for the answer is 40 words.

10x2=20

- What is system clock?
 - What are magnetic tapes? (b)
 - What is instruction word? (e)
 - Discuss about the shift microoperation with example.
 - Explain the design of client server computer.
 - What are the features of Pentium Microprocessor?
 - What is the EPROM and EEPROM?
 - What is main memory?
 - What are auxiliary storage devices?
 - Discuss about the buses.

PART-II

Each question is of 4 marks. Word limit for the answer is 80 words.

- Explain Von Neumann Architecture.
- Discuss about the control unit and its functions.
 - What do you mean by decoding of instruction?
- Explain static and dynamic RAM.
- Give the differences between microcontroller and microprocessor.

Each question is of 12 marks. Discuss following points about the storage devices: Von Neumann Architecture

3x4 = 12

(b) Mother Board

(c) **Bus Architecture**

OR

Discuss following:

- (a) Computer Ports
- (b) **Network Cables**
- (c) Network Adaptor Card

What do you mean by Instruction Execution Cycle? Discuss in detail with branch, skip, jump and 12

OR

Discuss the classification of Computer Systems with advantages and limitations of each.

9. Design a common bus system using multiplexer for 4 registers of 4 bit each. Also discuss the simple 12 organization of CPU with memory and I/O subsystems.

OR

Discuss about the Register Transfer Language and Draw the block diagram of the hardware that implements the following statement.

X+YZ: $R1 \Leftarrow R2, R2 \Leftarrow R1$

10. Why do we need so many addressing modes? Explain addressing modes in detail.

12

What do you mean by locality of reference? Also discuss about the cache memory.

Explain about the 8085 microprocessor with suitable diagram. 11.

12

Discuss about the RISC and CISC Computer with merits and demerits.

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