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(20524) Roll No.
B.Sc.(Com. Sci.)-IV Sem.

NP-3606

B.Sc. (Computer Science)

Examination, May-2024

COMPUTER ORGANIZATION

(BCS-402)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt **all** sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Attempt all **five** questions. Each question carries **3** marks. $5 \times 3 = 15$

1. What is main memory? 3
2. What is interrupt? 3
3. What is I/O interface? 3
4. What is bus transfer? 3
5. What is instruction cycle? 3

P.T.O.

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions out of the following **three** questions. Each question carries **7.5** marks. $7.5 \times 2 = 15$

6. What stack organization of CPU. 7.5
7. What is addressing mode? Explain any of the four addressing model. 7.5
8. What is virtual memory? Explain the need for virtual memory. 7.5

Section-C

(Long Answer Type Questions)

Note : Answer any **three** questions. Each question carries **15** marks. $3 \times 15 = 45$

9. What is RISC and CISC? Explain and differentiate between RISC and CISC? 15
10. What is direct memory access? Explain working of DMA in detail. 15

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11. What is I/O interface? Explain mode of transfers? Explain interrupt initiated I/O in detail. 15

12. What is virtual memory? Explain the process of converting virtual addresses to physical addresses with neat diagram? 15

13. Write short notes on any **three** (03):

3×5=15

- (a) Floating point number
- (b) Booth multiplication algorithm
- (c) Multiple Bus organization
- (d) Execution cycle of a complete instruction
- (e) Input-output processor