

Exam.Code:0041

Sub. Code: 18002

2124

B.Sc. (Hons.) Bio-Informatics

Third Semester

BIN-3003: Computer Operational System and Organization

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Write short notes on:-

- a) Register Transfer Language (RTL)?
- b) Sequential Circuits
- c) Physical inspection of PC
- d) Cache memory

(4x3)

UNIT - I

II. What is Stored Program Architecture? Explain the limitations of Stored Program Architecture. (12)

III. What are combinational blocks? Explain the working of any encoder and decoder. (12)

IV. Explain the concept of the instruction set in detail. (12)

UNIT - II

V. What is DMA transfer? Also, explain how the DMA controller communicates and transfers data between peripheral devices and RAM. (12)

VI. Discuss various types of computer viruses. Discuss the methods of prevention and protection from viruses. (12)

VII. What are the differences between assembly Language and Machine Language? What is the use of pseudo-instructions in assembly language? (12)

x-x-x