

PART – B (5 × 16 = 80 Marks)

11. (a) Discuss about the various components of a computer system. (16)

OR

(b) Elaborate the different types of addressing modes with a suitable example. (16)

12. (a) Explain briefly about floating point addition and Subtraction algorithms. (16)

OR

(b) Define Booth Multiplication algorithm with suitable example. (16)

13. (a) What is pipelining ? Discuss about pipelined data path and control. (16)

OR

(b) Briefly explain about various categories of hazards with examples. (16)

14. (a) Explain in detail about Flynn's classification. (16)

OR

(b) Write short notes on : (16)

(i) Hardware multithreading

(ii) Multicore processors.

15. (a) Define Cache Memory ? Explain the Various Mapping Techniques associated with cache memories. (16)

OR

(b) Explain about DMA controller, with the help of a block diagram. (16)