



PART B — (5 × 16 = 80 marks)

11. (a) What are the functional unit of a computer? Explain briefly.

Or

- (b) Describe the different classes of instruction format with example and different addressing modes.

12. (a) Explain micro programmed control unit. What are the advantages and disadvantages of it?

Or

- (b) (i) Explain the operation of hardwired control unit. (8)

- (ii) Explain in detail about multi bus architecture. (8)

13. (a) Discuss the various hazards that might arise in a pipeline. What are the remedies? Commonly adopter to overcome/minimize these hazards?

Or

- (b) Discuss the influence of various pipelining hazards on instruction set.

14. (a) Describe in detail about the memory mapping between virtual and main memory with an example.

Or

- (b) Write a short note on secondary storage device in computer system.

15. (a) Explain in detail about interrupt handling.

Or

- (b) Describe the various mechanisms for I/O devices.