

Faculty of Engineering & Technology
First M.C.A.-I/P.G.D.C.S. Examination
COMPUTER ORGANISATION
Paper—1CS1

Time—Three Hours]

[Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) Due credit will be given to neatness and adequate dimensions.
- (2) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Describe the single bus structure of computer. 7
- (b) Describe the generation of computer with details. 7

OR

2. (a) Explain and draw the units of computer. 7
- (b) Explain the functional specification of IBM PC. 7

3. (a) Explain the organization of CPU. 7
 (b) Explain the execution of complete instruction. 7
- OR**
4. Describe the pentium processor with details. 14
5. (a) What is interrupts ? How enabling and disabling the interrupt ? 6
 (b) Describe the mouse interrupts with details. 7
- OR**
5. (a) State different types of printers and give description about it. 7
 (b) What is I/O interface ? What are the different I/O interfaces ? 6
7. (a) Write a basic concept of the memory and draw a diagram of the connection between CPU and main memory. 7
 (b) Explain the terms :—
 (i) RAM
 (ii) Static memory
 (iii) Dynamic memory. 6
- OR**
8. (a) What do you mean by virtual memory ? Explain its address translation. 7
- (b) What is Cache memory ? Explain any Cache organization in detail. 6
9. (a) What is optical memory ? How read and write operation perform optical memory, describe with detail. 7
 (b) What are different types of memories ? Explain magnetic type operation. 6
- OR**
10. (a) Describe the physical organization and working of hard disk. 7
 (b) Describe the advantages and disadvantages of primary memory and secondary memory. 6
11. (a) What is modem ? Explain different types of modem and discuss the working of modem. 8
 (b) Explain the working of scanner with example. 5
- OR**
12. (a) Explain interfacing of PC with speaker and sound card. 8
 (b) Explain the characteristics of modem. 5