

**DIPLOMA EXAMINATION —
JANUARY 2015.**

Diploma in Computer Hardware Servicing

PERSONAL COMPUTER ORGANISATION

Time : 3 hours

Maximum marks : 75

PART A — (20 × 1 = 20 marks)

Answer ALL the questions.

1. Memory unit accessed by content is called _____.
 - (a) Read only memory
 - (b) Programmable Memory
 - (c) Virtual Memory
 - (d) Associative Memory
2. The main memory in a Personal Computer (PC) is made of _____.
 - (a) cache memory
 - (b) static RAM
 - (c) dynamic Ram
 - (d) Both (a) and (b)

3. Cache memory works on the principle of _____.
- (a) Locality of data
 - (b) Locality of memory
 - (c) Locality of reference
 - (d) Locality of reference and memory
4. Virtual memory consists of _____.
- (a) Static RAM
 - (b) Dynamic RAM
 - (c) Magnetic memory
 - (d) None of these
5. Generally Dynamic RAM is used as main memory in a computer system as it _____.
- (a) consumes less power
 - (b) has higher speed
 - (c) has lower cell density
 - (d) needs refreshing circuitry
6. Cache memory acts between _____.
- (a) CPU and RAM
 - (b) RAM and ROM
 - (c) CPU and Hard Disk
 - (d) None of these

7. The circuit used to store one bit of data is known as
- (a) Register
 - (b) Encoder
 - (c) Decoder
 - (d) Flip Flop
8. Memory unit is one part of
- (a) Input device
 - (b) Control unit
 - (c) Output device
 - (d) Central Processing Unit
9. The basic operations performed by a computer are
- (a) Arithmetic operation
 - (b) Logical operation
 - (c) Storage and retrieve
 - (d) All the above
10. Primary memory stores
- (a) Data alone
 - (b) Program alone
 - (c) Result alone
 - (d) All of these
11. Which of the following is not a valid size of a floppy disk?
- (a) 8"
 - (b) 5¼ "
 - (c) 3½"
 - (d) 5½"

12. EPROM can be used for
- (a) Erasing the contents of ROM
 - (b) Reconstructing the contents of ROM
 - (c) Erasing and constructing the contents of ROM
 - (d) Duplicating ROM
13. The two kinds of main memory are
- (a) Primary and secondary
 - (b) Random and sequential
 - (c) ROM and RAM
 - (d) All of above
14. Memory unit accessed by content is called _____.
- (a) Read only memory
 - (b) Programmable Memory
 - (c) Virtual Memory
 - (d) Associative Memory
15. What characteristic of RAM memory makes it not suitable for permanent storage?
- (a) too slow
 - (b) unreliable
 - (c) it is volatile
 - (d) too bulky

16. The original IBM PC / XT have
- (a) 83 keys (b) 86 keys
 - (c) 88 keys (d) 89 keys
17. The CRT viewable size in one inch
- (a) 22 mm (b) 23 mm
 - (c) 24 mm (d) 25 mm
18. Optical disk capacity range up to
- (a) 4 gigabytes (b) 5 gigabytes
 - (c) 6 gigabytes (d) 7 gigabytes
19. An optical mouse uses a
- (a) Lighting Emitting Diode
 - (b) Photodiode
 - (c) Both (a) and (b)
 - (d) None of these
20. The light pen become moderately popular during the early
- (a) 1970 (b) 1975
 - (c) 1978 (d) 1980

PART B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

21. Draw the block diagram of Mother Board.
22. Describe the principle of operation of computer monitor.
23. What are the characteristics of CRT? Explain.
24. Explain in detail about Inkjet printer.
25. Describe Bootstrapping using the BIOS.
26. Describe the common faults with Hard disk drive.
27. Write short notes on multiplexers.
28. Explain about platters and media.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

29. Explain different types of Buses.
30. Discuss in detail about scanners.
31. Explain about Fax/Modem Installation Guidelines.
32. Describe details about standard keyboard Layouts.
33. Explain the differences between TV and computer monitor.