

170/2014

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Which of the following is an impact printer?
(A) Inkjet Printer (B) Dot Matrix Printer
(C) Laser Printer (D) Thermal Printer
2. The data transfer rate of a 48x CDROM is :
(A) 7200 KB/sec (B) 7200 MB/sec
(C) 720 KB/sec (D) 720 MB/sec
3. The smallest individually addressable unit of information stored on a hard disk is :
(A) Track (B) Platter
(C) Sector (D) Cylinder
4. Which of the following is not a motherboard component?
(A) Hard Disk (B) BIOS ROM
(C) CMOS Battery (D) Processor
5. SMPS is used to :
(A) Control speed of processor (B) Manage Data transfer
(C) Convert ac voltage to dc (D) Control I/O devices
6. If the number of gates in an IC is between 100 and 5000, then the integration level is :
(A) SSI (B) MSI
(C) LSI (D) VLSI
7. Linux is :
(A) An operating system (B) A free software
(C) A system software (D) All the above
8. Which of the following is a gaming device?
(A) Mouse (B) Joystick
(C) Web cam (D) Track Ball

9. The device that connect computers by means of telephone line :
- (A) NIC (B) Bus
(C) Cable (D) Modem
10. POST means :
- (A) Power On System Test (B) Power On Self Test
(C) Power Out System Test (D) Power Out Self Test
11. The Principles of Structured programming forbid the use of :
- (A) switch (B) if
(C) for (D) goto
12. A microcontroller contains :
- (A) CPU and ROM (B) CPU, RAM and I/O ports
(C) CPU and RAM (D) All the above
13. Which is the term not related with Database?
- (A) TTL (B) SQL
(C) DML (D) DDL
14. Overclocking a CPU results in :
- (A) Increased performance (B) Increased heat
(C) Increased bus speed (D) All the above
15. The errors detected by compiler are :
- (A) Syntax errors (B) Semantic errors
(C) Logical errors (D) Internal errors
16. USB stands for :
- (A) Universal Synchronous Bus (B) Universal Serial Bus
(C) Uniform Standard Bus (D) Uniform Serial Bus
17. Cache memory is used to :
- (A) Increase capacity of memory (B) Store permanent data
(C) Store permanent code (D) Increase processing speed

18. The functioning of a microprocessor is controlled by :
- (A) Central Processing Unit (B) Arithmetic Logic Unit
(C) Control Unit (D) All the above
19. A nibble is a group of :
- (A) 2 bits (B) 4 bits
(C) 8 bits (D) 16 bits
20. North Bridge chip is responsible for interfacing with :
- (A) CPU and I/O (B) Memory and I/O
(C) CPU and memory (D) All the above
21. The contents are determined by metal masks during chip fabrication in :
- (A) ROM (B) PROM
(C) EPROM (D) EEPROM
22. BIOS is typically placed in :
- (A) CPU (B) ROM Chip
(C) RAM (D) Cache memory
23. Which of the following is a magnetic storage?
- (A) Hard Disk (B) Compact disc
(C) Flash memory (D) Blu-ray Disc
24. A 5 pin DIN connector is used to connect :
- (A) Mouse (B) Keyboard
(C) Monitor (D) Power to hard disk
25. To remove or replace jumpers on circuit board, we use :
- (A) Screw driver (B) Wire snips
(C) Needle-Nose plier (D) Tweezers

26. In Dynamic RAM, data is stored using :
- (A) Flip-flop (B) Magnetic field
(C) Capacitor (D) None of the above
27. The time required for the read/write head of hard disk to position on the correct track is :
- (A) Seek time (B) Latency
(C) Access time (D) Tracking time
28. Communication network over global area is called :
- (A) LAN (B) MAN
(C) WAN (D) VAN
29. Central Processing Unit consists of :
- (A) Control Unit and Memory Unit (B) ALU and Memory Unit
(C) ALU and Registers (D) ALU and Control Unit
30. If a microprocessor can access 64 K memory, then its address bus will be :
- (A) 8 bits (B) 16 bits
(C) 32 bits (D) 64 bits
31. The decimal number 17 can be represented in hexadecimal as :
- (A) 11 (B) 17
(C) 23 (D) 1 F
32. From a Stack structure, data can be accessed :
- (A) In any order (B) First in First out order
(C) Last in First out order (D) Based on Priority only
33. Which of the following IC is used for Keyboard/Display interfacing?
- (A) 8279 (B) 8255
(C) 8257 (D) 8259
34. Post script Language is used for :
- (A) Website creation (B) Printers
(C) Modems (D) Graphics

35. Movement of a mouse is detected using LED in :
- (A) Optical Mouse (B) Opto-mechanical Mouse
(C) Mechanical Mouse (D) USB Mouse
36. Resolution of computer monitors is measured in :
- (A) Hz (B) mm
(C) Pitch (D) Pixel
37. CD-RW permits data to :
- (A) Write once (B) Write many times
(C) Write once and read many (D) Read only
38. Zoned recording in hard disk increases available disk spaces by having more sectors in :
- (A) All tracks (B) Inner tracks
(C) Middle tracks (D) Outer tracks
39. Formatting a hard disk means, reallocating :
- (A) Tracks (B) Sectors
(C) File system (D) All the above
40. Which of the following is not a microprocessor component?
- (A) Decode unit (B) Program Counter
(C) Arithmetic Logic Unit (D) Heat sink
41. Hyper Threading technology enables a single CPU to :
- (A) Act like multiple CPU (B) Use cache memory
(C) Process floating point operations (D) Display high resolution graphics
42. The number of bits processed by a microprocessor at a time is its :
- (A) Data size (B) Word size
(C) Code size (D) None of the above

43. The system bus (FSB) is placed between :
- (A) CPU and I/O device (B) CPU and Cache memory
(C) CPU and memory (D) Memory and I/O device
44. Pin Grid Array packaging is used for :
- (A) Memory (B) DMA Controller
(C) Microprocessor (D) AGP
45. The form factor of a motherboard determines its :
- (A) Physical shape and size (B) Type of processor supported
(C) Capacity of RAM supported (D) All the above
46. Operating system lies between :
- (A) Hardware and software (B) Hardware and firmware
(C) Hardware and user (D) Software and user
47. Source programs are converted to object programs using :
- (A) Compiler (B) Interpreter
(C) Assembler (D) All the above
48. The dimension of a ATX motherboard in inches is :
- (A) 12 × 9.6 (B) 9.6 × 9.6
(C) 9 × 10 (D) 12 × 12
49. Which of the following is not a networking device?
- (A) Switch (B) Repeater
(C) Bridge (D) LAN
50. 4 pin Molex is a :
- (A) Data connector (B) Power Connector
(C) Peripheral Connector (D) None of the above
51. The size of MAC address is :
- (A) 24 bits (B) 48 bits
(C) 24 bytes (D) 48 bytes

52. The OR gate has :
- (A) One input and one output (B) Two input and one output
(C) Many input and one output (D) One input and many output
53. A maximum of 127 devices can be connected using :
- (A) Parallel port (B) Serial Port
(C) USB port. (D) Game port
54. The technology that enables devices to automatically install themselves is :
- (A) Autorun (B) Plug and Play
(C) PCI (D) Auto load
55. Which of the following is a feature of USB?
- (A) No device driver needed (B) Hot-swappable
(C) No plug and play (D) All the above
56. How many read/write heads is needed for a hard drive with 4 platters?
- (A) 16 (B) 12
(C) 8 (D) 4
57. Internal CD-ROM drives are connected to the motherboard using :
- (A) IDE (B) USB
(C) Parallel port (D) PCI
58. Which of the following is a valid refresh rate of a CRT monitor?
- (A) 72 THz (B) 72 MHz
(C) 72 KHz (D) 72 Hz
59. An optical mouse works well on :
- (A) Any smooth surface (B) Transparent surface
(C) Non-transparent surface (D) Conducting surface

60. Inkjet printers contains :
- (A) 2 colours of ink (B) 4 colours of ink
(C) 6 colours of ink (D) 8 colours of ink
61. Which is the protocol used by internet?
- (A) IPX/SPX (B) NetBEUI
(C) TCP/IP (D) PPP
62. The process of writing data to a CD is called :
- (A) Loading (B) Writing
(C) Backup (D) Burning
63. Software the works with operating system to enable hardware devices is :
- (A) Device driver (B) Firmware
(C) Device Manager (D) Debugger
64. What is the reason to choose a laser printer over an inkjet printer?
- (A) Speed (B) Colour
(C) Cost (D) Resolution
65. Extended partition of a hard drive is :
- (A) Optional (B) Not bootable
(C) Divided into logical drives (D) All the above
66. Which of the following is not a file system?
- (A) FAT32 (B) NTFS
(C) FDISK (D) EXT4
67. The port which is not normally associated with a mouse is :
- (A) USB (B) Parallel
(C) Serial (D) PS/2
68. Zero Insertion Force (ZIF) is related with :
- (A) CD (B) CPU
(C) Memory (D) USB

69. How many pins does a video connector have?
- (A) 15 pins in two rows (B) 9 pins in two rows
(C) 15 pins in three rows (D) 9 pin in three rows
70. Applying thermal compound in CPU fan assembly is to :
- (A) Improve heat transfer (B) Control dust
(C) Increase fan speed (D) Cool down the processor
71. Each sector of hard disk can hold :
- (A) 126 Bytes (B) 512 Bytes
(C) 1024 Bytes (D) It depends on capacity of the disk
72. Increasing the screen resolution also increases :
- (A) Pixels (B) Dot pitches
(C) VIS (D) Colours
73. Which organic ink colour provides the best write for a CD-R?
- (A) Blue (B) Green
(C) Gold (D) The ink colour doesn't matter
74. What happens to the CPU if any one of its pin is broken?
- (A) The CPU is useless
(B) Used, but speed will be decreased
(C) Can be used by soldering a new pin
(D) Nothing. Most of the pins are redundant
75. Which of the following factors identify a CPU?
- (A) Manufacturer, Speed, Manufacturing process, Form factor
(B) Manufacturer, Model, Speed, Manufacturing Process
(C) Manufacturer, Model, Speed, Package
(D) Form factor, Model, Speed, Package