

63. **AC Voltage controller**: → controls the rms value of an AC voltage. Application:

- speed control of induction motor.
- varies the supply voltage.

64. **GTO**: (gate turn-off thyristor)

- special type of thyristor
- high power semi-conductor device
- fully controllable switches.

65. **Voltage sensor**: voltage monitoring device

66. **Corona-effect**: The phenomenon of ionisation of air surrounding a conductor due to which luminous glow and hissing noise is raised is known as corona-effect.

69. **Tariff**: rate at which electrical energy is sold to a consumer.

70. **Variable port addressing**:

→ Allows data transfer between AL or AX and a 16 bit port address.

fixed-port addressing	Variable port addressing
→ 8-bit	→ 16-bit
→ only AL is used	→ AX is used

71. **SPWM**: (Advantages):

- switching frequency constant
- easy to calculate the losses of switching devices.
- thermal design is easy.

72. Fuse

- protects devices from overloading and short circuit only
- can't be reused
- fuse is a metal piece that melts when overloading occurs.

Circuit Breaker

- protects device from short circuit and overloading
- can be reused.
- circuit breaker is an internal switch that gets tripped when there is excess current

73. Software: set of computer programs and associated documentation and data.

74. Algorithm of maximum powerpoint:

max. power point → the point at which the product of the current and voltage equal the greatest value.

Algorithm → effort 1

75. program: → set of instructions

76. TDM: (Time-division multiplexing)

- Data, voice and video communication technique that interleaves several low speed signals into one high-speed transmission channel. ~~(one medium)~~

TDMA: (time division multiple access)

- channel access method for shared - medium network
- Allows several users to share the same frequency channel.

77. single-line diagram: (simplified representation of an electrical system)

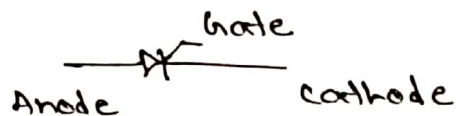


79. GP. Rabi TATA Modulation technique use TATA?

80. PCM

81. SCR: Silicon controlled rectifier.

→ It is a three terminal thyristor that acts like a silicon rectifier diode whose conduction is controlled by an input current.



2. FDMA: Frequency Division Multiple Access.

3. ~~SSB~~ DSB

→ removes the carrier but transmits both sidebands

→ Double side-band modulation technique.

~~SSB~~ SSB

→ removes the carrier and one of the sidebands

→ Single side-band modulation technique.

→ utilizes half the bandwidth, therefore noise is reduced to half.

[SSB is better than DSB]

SSB → Single side-band

DSB → Double side-band.

84. Relative Addressing: JMP
JNZ
JE

85. → ?

86. Infinite Bus: An infinite bus is a power system so large that its voltage and frequency remain constant regardless of how much real or reactive power is drawn from or supplied to it.

→ Infinite bus - $\angle \phi$ Voltage Angle constant.

87. What is feeding a channel?

→ information to data transfer capability.

88. Volatile memory: (RAM) transfer read + write 2nd time.

89. Handshaking: inter connection between microprocessor and peripherals.

90. INT 21H data type - $\angle \phi$ interrupt?

→ software interrupt.

91. Fuse

Relay

→ switches that open/close an electrical circuit.

→ Allows small control signal to run heavier equipments.

92. Diversity Factor: (greater than 1)

(ratio of sum of individual maximum demand of a system to the maximum demand of the whole system).

→ ratio of sum of the individual maximum demand of a system to the maximum demand of the whole system.

93. Total harmonics ratio ratio? → ?

94. Hardware

Software

→ physical & visible components. → set of instructions
CPU, keyboard, mouse.

95. Maskable

non-maskable

→ this interrupt can be ignored / disabled by the CPU.

→ can't be ignored / disabled. The CPU must accept this interrupt.

96. Input $\pi\alpha\pi\alpha$ code:

```
MOV AH, 1  
INT 21H
```

output Display - $\pi\alpha$ code:

```
MOV AH, 2  
INT 21H
```

97. Form factor: $\frac{\text{RMS Value}}{\text{Average Value}}$

half-wave - $\pi\alpha$ form factor 1.57.

98. Ideal value of form factor: ≈ 1

99. Transmission line - π bounded wire $\pi\alpha$ used $\pi\alpha$?
 \rightarrow skin effect $\pi\alpha\pi\alpha$,

100. Difference between MATLAB and SIMULINK:

code. \leftarrow

\rightarrow graphical user interface

1. THD:

2. Vector number:

3. VSB modulation: Vestigial-Sideband modulation.

\rightarrow the 'vestige' part of a signal is modulated alongside one sideband.

5. SSB, DSB $\pi\alpha$ used $\pi\alpha$?

\rightarrow to extract the desired sideband.

7. Negative resistance $\pi\alpha\pi\alpha$ $\pi\alpha\pi\alpha$?

\rightarrow oscillators, amplifiers.

9. Interrupt:

10. Segmentation $\pi\alpha$ $\pi\alpha$?

11. ~~Stack~~ ^{Slack} Bus: → provides reference for the voltage & angle. (Also called reference bus)

16. Noise: → unwanted sound

17 → (?)

18. 8086
8-bit mpu

8086
16-bit mpu.

19. PC Mode

Kit mode

20 → (?)

21. read mode - no diagram - a gap for error?

→

22) NEAR:

the procedure is defined ~~at~~ ⁱⁿ the same segment as the code.

FAR:

the procedure is defined in some other segments.

23) Line of sight (LOS): A type of propagation that can transmit and receive data only where transmit and receive stations are in view of each other, without any obstacles.

24. Boost converter - A capacitor - do what for?
→ for filtering purpose.

25. Solar panel - a solar converter use what?
→ Buck - boost converter.

26. Stack operation what is it? (without push & pop)
→