

Which of the following is a part of SMPS component?

1. Output filter coil
2. MOSFET
3. Zener diode
4. FET

**Answer** ([Detailed Solution Below](#))

Option 1 : Output filter coil

Which of the following is a feature of SMPS?

1. High efficiency
2. AF gain
3. Power buck
4. RF gain

**Answer** ([Detailed Solution Below](#))

Option 1 : High efficiency

Which of the following is NOT a valid characteristics of switched mode power supply as compared to linear power supply?

1. Higher efficiency
2. Low noise at output
3. Light weight
4. Smaller size of transformer

**Answer** ([Detailed Solution Below](#))

Option 2 : Low noise at output

Which of the following parts is NOT a part of DC power supply?

1. Load resistance
2. Rectifier
3. Filter
4. Regulator

**Answer** ([Detailed Solution Below](#))

Option 1 : Load resistance

SMPS stand for \_\_\_\_\_

1. Simple mode power supply
2. Switch mode power supply
3. Surge mode power supply
4. None of these

**Answer** ([Detailed Solution Below](#))

Option 2 : Switch mode power supply

The bistable multivibrator

1. has two stable states
2. has one stable state
3. is free running
4. none of the above

**Answer** ([Detailed Solution Below](#))

Option 1 : has two stable states

Which signal is generated by using a monostable multivibrator?

1. PCM
2. TDM
3. PAM
4. PWM

**Answer** ([Detailed Solution Below](#))

Option 4 : PWM

Schmitt trigger can be used as a

1. Comparator
2. Square wave generator

3. Flip flop
4. All of these

**Answer** (Detailed Solution Below)

Option 4 : All of these

A monostable multivibrator is frequently used:

1. in memory and timing circuits
2. for regeneration of distorted waves
3. in counting circuits
4. for producing triangular waves

**Answer** (Detailed Solution Below)

Option 2 : for regeneration of distorted waves

A Schmitt trigger is a digital circuit that produces

1. triangular output for sinusoidal input
2. sinusoidal output for any type of input
3. trapezoidal output for any type of input
4. rectangular output for any type of input

An astable multivibrator produces

1. Sine wave
2. Triangular wave
3. Sawtooth wave
4. Square wave

**Answer** (Detailed Solution Below)

Option 4 : Square wave

Digital storage oscilloscope is used to measure amplitude of\_\_\_\_\_

1. Sinusoidal
2. Triangular
3. Sawtooth

4. All the above

**Answer** [\(Detailed Solution Below\)](#)

Option 4 : All the above

The output of Schmitt trigger is:

1. Sine wave
2. Square wave
3. Random wave
4. Rectangle wave

**Answer** [\(Detailed Solution Below\)](#)

Option 2 : Square wave

Which of the following parts is NOT a part of DC power supply?

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**Answer** [\(Detailed Solution Below\)](#)

Option 1 : Load resistance

SMPS stand for \_\_\_\_\_

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4. None of these

**Answer** [\(Detailed Solution Below\)](#)

Option 2 : Switch mode power supply

Automatic switching OFF function is accomplished in MCB by \_\_\_\_\_

1. Relay

2. clutch
3. bimetallic-strip
4. diode

**Answer** [\(Detailed Solution Below\)](#)

Option 3 : bimetallic-strip

The most suitable device for high-frequency inversion in SMPS is

1. BJT
2. IGBT
3. MOSFET
4. GTO

**Answer** [\(Detailed Solution Below\)](#)

Option 3 : MOSFET

The working of SMPS is based on:

1. Integral control principle
2. Frequency control principle
3. Chopper principle
4. Phase control principle

**Answer** [\(Detailed Solution Below\)](#)

Option 3 : Chopper principle

Which of the following is the main advantage of SMPS over linear power supply?

1. No transformer is required
2. Higher efficiency
3. No filter required
4. Only one stage of conversion

**Answer** [\(Detailed Solution Below\)](#)

Option 2 : Higher efficiency

In the SMPS regulator is accompanied by:

1. Duty cycle control
2. Regulator IC
3. Zener
4. Stabilizer

**Answer** [\(Detailed Solution Below\)](#)

Option 1 : Duty cycle control

The disadvantage of SMPS over conventional linear power supply is \_\_\_\_

1. Low efficiency
2. Bulky components
3. Generates strong electromagnetic interference field
4. Low cost

**Answer** [\(Detailed Solution Below\)](#)

Option 3 : Generates strong electromagnetic interference field

Which of the following parts is NOT a part of DC power supply?

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**Answer** [\(Detailed Solution Below\)](#)

Option 1 : Load resistance

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**Answer** [\(Detailed Solution Below\)](#)

Option 2 : Low noise at output

The most suitable device for high-frequency inversion in SMPS is

1. BJT
2. IGBT
3. MOSFET
4. GTO

**Answer** ([Detailed Solution Below](#))

Option 3 : MOSFET

Switch mode power supply is used for:

1. Obtaining controlled DC supply
2. Switching over from one supply to another
3. Obtaining AC voltage of low frequencies
4. Obtaining AC voltage of high frequencies

**Answer** ([Detailed Solution Below](#))

Option 1 : Obtaining controlled DC supply

The working of SMPS is based on:

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2. Frequency control principle
3. Chopper principle
4. Phase control principle

**Answer** ([Detailed Solution Below](#))

Option 3 : Chopper principle

In the SMPS regulator is accompanied by:

1. Duty cycle control
2. Regulator IC
3. Zener
4. Stabilizer

**Answer** (Detailed Solution Below)

Option 1 : Duty cycle control

Clamping is a process of introducing a/an

1. dc level into an ac signal
2. ac level into an ac signal
3. ac level into a dc signal
4. dc level into a dc signal

**Answer** (Detailed Solution Below)

Option 1 : dc level into an ac signal

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2. Triangular
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**Answer** (Detailed Solution Below)

Option 4 : All the above

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Option 2 : Low noise at output