

Basic Technology

Question No. 01

In which decade with the first transatlantic radio broadcast occur?

- (A) 1850s
- (B) 1860s
- (C) 1870s
- (D) 1900s

Answer: Option D

Question No. 02

In which decade was the SPICE simulator introduced?

- (A) 1950s
- (B) 1960s
- (C) 1970s
- (D) 1980s

Answer: Option C

Question No. 03

Most modern TV's draw power even if turned off. The circuit the power is used in does what function?

- (A) Sound
- (B) Remote control
- (C) Color balance
- (D) High voltage

Answer: Option B

Question No. 04

Which is a type of Electrically-Erasable Programmable Read-Only Memory?

- (A) Flash
- (B) Flange
- (C) Fury
- (D) FRAM

Answer: Option A

Question No. 05

The purpose of choke in tube light is?

- (A) To decrease the current
- (B) To increase the current
- (C) To decrease the voltage momentarily
- (D) To increase the voltage momentarily

Answer: Option D

Question No. 06

Who is largely responsible for breaking the German Enigma codes, created a test that provided a foundation for artificial intelligence?

- (A) Alan Turing
- (B) Jeff Bezos
- (C) George Boole
- (D) Charles Babbage

Answer: Option A

Question No. 07

Made from a variety of materials, such as carbon, which inhibits the flow of current?

- (A) Choke
- (B) Inductor
- (C) Resistor
- (D) Capacitor

Answer: Option C

Question No. 08

The most common format for a home video recorder is VHS. VHS stands for?

- (A) Video Home System
- (B) Very high speed
- (C) Video horizontal standard
- (D) Voltage house standard

Answer: Option A

Question No. 09

What does VVVF stand for?

- (A) Variant Voltage Vile Frequency
- (B) Variable Velocity Variable Fun
- (C) Very Vicious Frequency
- (D) Variable Voltage Variable Frequency

Answer: Option D

Question No. 10

What frequency range is the High Frequency band?

- (A) 100 kHz
- (B) 1 GHz
- (C) 30 to 300 MHz
- (D) 3 to 30 MHz

Answer: Option D

Question No. 11

The first step to getting output from a laser is to excite an active medium. What is this process called?

- (A) Pumping

- (B) Exciting
- (C) Priming
- (D) Raising

Answer: Option A

Question No. 12

What is the relationship between resistivity 'r' and conductivity 's'?

- (A) $R = s^2$
- (B) $R = s$
- (C) $R > s$
- (D) $R = 1/s$

Answer: Option D

Question No. 13

Which motor is NOT suitable for use as a DC machine?

- (A) Permanent magnet motor
- (B) Series motor
- (C) Squirrel cage motor
- (D) Synchronous motor

Answer: Option C

Question No. 14

A given signal's second harmonic is twice the given signal's _____ frequency?

- (A) Fourier
- (B) Foundation
- (C) Fundamental
- (D) Field

Answer: Option C

Question No. 15

In which year was MIDI (Musical Instrument Digital Interface) introduced?

- (A) 1987
- (B) 1983
- (C) 1973
- (D) 1977

Answer: Option B

Question No. 16

What does the term PLC stand for?

- (A) Programmable Lift Computer
- (B) Program List Control
- (C) Programmable Logic Controller
- (D) Piezo Lamp Connector

Answer: Option C

Question No. 17

When measuring the characteristics of a small-signal amplifier, say for a radio receiver, one might be concerned with its "Noise"?

- (A) Fundamental
- (B) Fall
- (C) Force
- (D) Figure

Answer: Option D

Question No. 18

Who created Pretty Good Privacy (PGP)?

- (A) Phil Zimmermann
- (B) Tim Berners-Lee
- (C) Marc Andreessen
- (D) Ken Thompson

Answer: Option A

Question No. 19

After the first photons of light are produced, which process is responsible for amplification of the light?

- (A) Blackbody radiation
- (B) Stimulated emission
- (C) Planck's radiation
- (D) Einstein oscillation

Answer: Option B

Question No. 20

Which is NOT an acceptable method of distributing small power outlets throughout an open plan office area?

- (A) Power Poles
- (B) Power Skirting
- (C) Flush Floor Ducting
- (D) Extension Cords

Answer: Option D

Question No. 21

The electromagnetic coils on the neck of the picture tube or tubes which pull the electron beam from side to side and up and down are called a _____?

- (A) Transformer
- (B) Yoke
- (C) Capacitor
- (D) Diode

Answer: Option B

Question No. 22

In a color television set using a picture tube a high voltage is used to accelerate electron beams to light the screen. That voltage is about?

- (A) 500 volts
- (B) 5 thousand volts
- (C) 25 thousand volts
- (D) 100 thousand volts

Answer: Option C

Question No. 23

The transformer that develops the high voltage in a home television is commonly called a _____?

- (A) Tesla coil
- (B) Flyback
- (C) Yoke
- (D) Van de Graaf

Answer: Option B

Question No. 24

Which consists of two plates separated by a dielectric and can store a charge?

- (A) Inductor
- (B) Capacitor
- (C) Transistor
- (D) Relay

Answer: Option B

Question No. 25

"FET" is a type of transistor; its full name is _____ Effect Transistor.

- (A) Field
- (B) Factor
- (C) Flash
- (D) Force

Answer: Option A

Question No. 26

What are three types of lasers?

- (A) Gas, metal vapour, rock
- (B) Pointer, diode, CD
- (C) Diode, inverted, pointer
- (D) Gas, solid state, diode

Answer: Option D

Question No. 27

What will a UPS be used for in a building?

- (A) To provide power to essential equipment

- (B) To monitor building electricity use
- (C) To carry messages between departments
- (D) To control lighting and power systems

Answer: Option A

Question No. 28

Once the active medium is excited, the first photons of light are produced by which physical process?

- (A) Blackbody radiation
- (B) Spontaneous emission
- (C) Synchrotron radiation
- (D) Planck's oscillation

Answer: Option B

Question No. 29

The average power (in watts) used by a 20 to 25 inch home color television is?

- (A) 70-100
- (B) 25-50
- (C) 500-800
- (D) Over 1000

Answer: Option A

Question No. 30

What does AC and DC stand for in the electrical field?

- (A) Alternating Current and Direct Current
- (B) A Rock Band from Australia
- (C) Average Current and Discharged Capacitor
- (D) Atlantic City and District of Columbia

Answer: Option A

Question No. 31

Voltage is sometimes referred to as EMF, or Electromotive?

- (A) Field
- (B) Factor
- (C) Flash
- (D) Force

Answer: Option D

Question No. 32

The input used by an antenna or cable to a TV set uses frequencies called?

- (A) IF
- (B) RF
- (C) AF
- (D) SAP

Answer: Option B

Question No. 33

Larger buildings may be supplied with a medium voltage electricity supply, and will require a substation or mini-sub. What is the main item of equipment contained in these?

- (A) Transformer
- (B) Transponder
- (C) Transducer
- (D) Converter

Answer: Option A

Question No. 34

What was the active medium used in the first working laser ever constructed?

- (A) A diamond block
- (B) Helium-neon gas
- (C) A ruby rod
- (D) Carbon dioxide gas

Answer: Option C

Question No. 35

What is "Hot Line"?

- (A) An Electric wire
- (B) Line of control in the battle field
- (C) Imaginary line indicating atmospheric pressure
- (D) A telecommunication link

Answer: Option D

Question No. 36

Blue is what number on the resistor color code?

- (A) 1
- (B) 4
- (C) 2
- (D) 6

Answer: Option D

Question No. 37

What is an FET?

- (A) Farad Effect Transformer
- (B) Field Effect Transformer
- (C) Field Effect Transistor
- (D) French Energy Transfer

Answer: Option C

Question No. 38

How many diodes are in a full wave bridge rectifier?

- (A) 8
- (B) 2

(C) 4

(D) 3

Answer: Option C

Question No. 39

Which device can be used to store charge?

(A) Transistor

(B) Diode

(C) Capacitor

(D) Resistor

Answer: Option C

Question No. 40

Name the terminals of a BJT.

(A) Drain, Gate, Source

(B) Positive, Negative, Neutral

(C) Anode, Cathode, Triode

(D) Emitter, Base, Collector

Answer: Option D

Question No. 41

A DV camcorder is:

(A) Capable of creating video in HDTV

(B) Used to create digital video

(C) Limited to the Direct Video format

(D) A Denon Video brand product

Answer: Option B

Question No. 42

What are the 2 terminals of a diode called?

(A) Pentode and Triode

(B) Gate and Drain

(C) Drain and Source

(D) Anode and Cathode

Answer: Option D

Question No. 43

A coating of dust on a computer's main circuit boards has this probable consequence

(A) Overheating

(B) Short circuits

(C) Slower hard disk

(D) None

Answer: Option A

Question No. 44

How many terminals does a BJT have?

- (A) 1
- (B) 5
- (C) 4
- (D) 3

Answer: Option D

Question No. 45

What is a BJT?

- (A) Bit Junction Transfer
- (B) Bi-polar Junction Transistor
- (C) Bell Jar Transformer
- (D) Back Junction Transformer

Answer: Option B

Question No. 46

What are the three main search expressions, or operators, recognized by Boolean logic?

- (A) FROM, TO, WHOM
- (B) AND, OR, NOT
- (C) SEARCH, KEYWORD, TEXT
- (D) AND, OR, BUT

Answer: Option B

Question No. 47

In which decade was the telegraph invented?

- (A) 1810s
- (B) 1840s
- (C) 1870s
- (D) 1890s

Answer: Option B

Question No. 48

In which decade was the telephone invented?

- (A) 1850s
- (B) 1860s
- (C) 1870s
- (D) 1880s

Answer: Option C

Question No. 49

Name the terminals of an FET.

- (A) Drain, Gate, Source
- (B) Positive, Negative, Neutral
- (C) Anode, Cathode, Triode

(D) Emitter, Base, Collector

Answer: Option A

Question No. 50

Which of the following is NOT a type of expansion slot or bus design used in Advanced-Technology class systems?

(A) PCMCIA

(B) ISA

(C) PROM

(D) EISA

Answer: Option C

Question No. 51

What is a GPU?

(A) Grouped Processing Unit

(B) Graphics Processing Unit

(C) Graphical Performance Utility

(D) Graphical Portable Unit

Answer: Option B

Question No. 52

What does DOCSIS stand for?

(A) Data Over Cable Service Interface Specification

(B) Data Over Cable Security Internet Std

(C) Data Over Cable Secure International Stds

(D) Data Over Cable Service Internet Standard

Answer: Option A

Question No. 53

What is VCM?

(A) Virtual Connection Manager

(B) Virtual Channel Memory

(C) Voice Controlled Modem

(D) Voice Communications Module

Answer: Option B

Question No. 54

What was the clock speed of the original IBM PC?

(A) Less than 5 MHz

(B) 10 MHz

(C) 8 MHz

(D) Just over 16 MHz

Answer: Option A

Question No. 55

What is NAT?

- (A) Network Address Translation
- (B) Network Administration Tool
- (C) Novell Address Transfer
- (D) Newly Added Technology

Answer: Option A

Question No. 56

The invention of the transistor, or semiconductor, was one of the most important developments leading to the personal computer revolution. What company invented the transistor in 1947?

- (A) International Business Machines
- (B) MITS
- (C) Xerox
- (D) Bell Laboratories

Answer: Option D

Question No. 57

What is TTL?

- (A) Technical Talk Language
- (B) Transparent Transfer Layer
- (C) Time To Live
- (D) True Technology Lives

Answer: Option C

Question No. 58

What does PPTP stand for?

- (A) Point to Point Transmission Protocol
- (B) Point to Point Transfer Protocol
- (C) Point to Point Tunnelling Protocol
- (D) Point to Point Traffic Protocol

Answer: Option C