
THE BIG RADIO QUIZ 23-05-2020

ROUND ONE - HISTORY
ROUND TWO - TECHNICAL
ROUND THREE - GENERAL RADIO KNOWLEDGE

31 Questions

ROUND ONE HISTORY

- 1) The world first teletext service better known as Ceefax ended on the 23rd of October 2012 but when did it begin
 - A) 1974
 - B) 1979
 - C) 1980

- 2) The Mullard valve company was founded by Captain Stanley R Mullard in 1920. Where was it founded
 - a) Birmingham
 - b) Coventry
 - c) London

- 3) Which was the first naval battle in which wireless telegraphy played a pivotal role.
 - A. 1805 Battle of Trafalgar
 - B. 1904 Dogger Bank incident
 - C. 1905 Battle of Tsushima

- 4) The Telstar satellites successfully relayed the first television pictures through space. But what was the name of the group to have a chart hit with Telstar in 1962.
 - A) The Tornados
 - B) The Hollies
 - C) R.E.O. Speedwagon

- 5) For over five decades Goonhilly Earth Station assisted with terrestrial and extra terrestrial communications, including the moon landing. But where is Goonhilly located
 - A) Cornwall
 - B) Devon
 - C) Dorset

Bonus At Goonhilly what is the nickname given to "Antenna One"

6) The Regency TR-1, the world's first commercial transistor radio. what was the year it first went on sale

- A) 1954
- B) 1958
- C) 1961

Bonus question How much did it cost

- A) \$23
- B) \$50
- C) \$175

7) Which British loud speaker manufacturer was founded by Guy Fountain in London England as the Tulsemere manufacturing company in 1926

- A) Celestion
- B) Wharfedale
- C) Tannoy Ltd

8) Heinrich Hertz died on 1 January 1894. How old was he on his death?

- A) 36
- B) 46
- C) 56

9) What would you associate with Bush House, from 1941 to 2012?

- A) BBC Radio Licencing
- B) BBC Television Broadcasting
- C) BBC World Service

10) What year did radio Caroline start broadcasting.

- A) 1961
- B) 1964
- C) 1972

Bonus from 1983 what was the name of the boat
from which radio Caroline was broadcast

ROUND TWO TECHNICAL

11) The invention capacitor dates back to 1746. what name was given to the first capacitor

- A) Beehive
- B) Plate accumulator

C) Leiden Jar

12) The Mullard C280 metallised polyester capacitors are better known by what name:

- A) Mustard Pots
- B) Tropical Fish
- C) Bumble Bees

13) What would be the value of a ceramic disc capacitor labelled with the number 101

- A) 10pf
- B) 100pf
- C) 1000pf

14) If two 100nf capacitor are wired in series what is the total capacitance value

- A) 50 nF
- B) 100nF
- C) 200nF

15) Radio tuning circuit most frequently employ which type of high tolerance capacitor

- A) Electrolytic
- B) Paper
- C) Silver Mica

16) How many picofarads in a microfarad?

- A) One Thousand
- B) Ten Thousand
- C) 1 Million

17) What does SCR stand for?

- A) Short Circuit Rectifier
- B) Silicon Controlled Rectifier
- C) Small Cracked Resistor

18) Where would you tune a radio dial for a signal that has the same numeric value in frequency Mhz and wavelength in meters.

- A) 153.5 Khz
- B) 11.342 Mhz
- C) 17.3 Mhz

19) What modulation mode does the VHF air band use.

- A) FM
- B) AM

C) SSB

20) What current will flow through a 48 ohm resistor when connected to a 24V supply.

- A) 72 mA
- B) 500 mA
- C) 1152 mA

General Radio Knowledge Round

21) NAD amplifier company was founded in London, England, in 1972 by Dr. Martin L. Borish. NAD's most famous product is NAD 3020 integrated amplifier. But What doe NAD stand for

- A) New Audio Direction
- B) Newbold Audio Definition
- C) New Acoustic Dimension

22) Which radio manufacturing brand produced the following models:

Jewel, Nomad De-Luxe , MAYFAIR 6150

- A) Decca
- B) Dynatron
- C) Defiant

23) What does the amateur radio Q code of QSY mean?

- A) Your location
- B) Interference on the frequency
- C) Change your operating frequency

24) What is the name of the Archers' family farm in radio soap The Archers?

- A) Brookside
- B) Brookfield
- C) Brookshields

25) In the 1980 BBC two comedy The Young Ones, who was encouraged to "eat the television"

- A) Vyvyan
- B) Neil
- C) Mike

26) What is the frequency of Radio 4 Long Wave

- A) 198 kilohertz
- B) 252 Kilohertz
- C) 187 Kilohertz

27) Hacker Radio Top Trumps, which of the following radio contains the most transistors

- A) RP34 Democrat
- B) RP25 Sovereign II
- C) RV20 Mayflower II

28) Which of the following radio manufacturers holds a royal warrant.

- A) Bush Radio
- B) Graham Amplion company
- C) Roberts Radio Ltd

29) Name the 1981 debut single by American alternative rock band R.E.M.

- A) Radio Radio
- B) Radio Free Europe
- C) Radio killer

30) In amateur radio What does the abbreviation WARC stand for:

- A) World Administrative Radio Conference
- B) Wartime Admiralty radio committee
- C) Weatherproof Antenna Radio Connector

31) On 27th June 2014 changes were made to the UK CB licence regulation allow what:

- A) Transmission of Wideband FM
- B) Transmission above 12 Watts
- C) AM-SSB operating modes

THIS ENDS THE QUIZ ANSWERS BELOW THANKS FOR PLAYING

ANSWERS

- 1) The world first teletext service better known as Ceefax ended on the 23rd of October 2012 but when did it begin

Answer (A) 1974

BBC to switch off Red Button information service in 2020. The BBC is to switch off its Red Button teletext service from the start of next year, the broadcaster has confirmed. The closure of the service marks the end of the BBC's teletext, 45 years after it began

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- 2) The Mullard valve company was founded by Captain Stanley R Mullard in 1920. Where was it founded

Answer (C) London

The Mullard Radio Valve Co. of Southfields, London, was founded in 1920 by Captain Stanley R. Mullard, who had previously designed thermionic valves for the Admiralty before becoming managing director of the Z Electric Lamp Co. The company soon moved to Hammersmith, London and then in 1923 to Balham, London

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- 3) Which was the first naval battle in which wireless telegraphy played a pivotal role.

Answer (C) 1905 Battle of Tsushima

1905 Battle of Tsushima: On May 26, 1905 a Japanese auxiliary cruiser detected the Russian fleet passing through the Tsushima Strait between Japan and Korea under cover of fog and, using wireless telegraphy, informed the Admiral of the Japanese fleet of the location. For imperial Russia, the defeat at Tsushima meant the literal beginning of the end. It contributed to the revolution of 1905, and thus opened the way to the revolution of 1917, which toppled the empire and resulted in the creation of the Soviet Union. The Cruiser Aurora, which survived the Battle of Tsushima and on 25 October 1917 fired a blank shot that signaled the beginning of the October Revolution, can be seen in St. Petersburg:

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- 4) The Telstar satellites successfully relayed the first television pictures through space. But what was the name of the group to have a chart hit with Telstar in 1962.

Answer (A) The Tornados

Telstar" is a 1962 instrumental written and produced by Joe Meek for the English band the Tornados. The track reached number 1 on the U.S. Billboard Hot 100 in December 1962 the second British recording to reach number 1 on that chart in the year after

5) For over five decades Goonhilly Earth Station assisted with terrestrial and extra terrestrial communications, including the moon landing. But where is Goonhilly located

Answer (A) Cornwall

Bonus At Goonhilly what is the nickname given to "Antenna One"

Bonus Answer: Arthur

Goonhilly Satellite Earth Station is a large radiocommunication site located on Goonhilly Downs near Helston on the Lizard peninsula in Cornwall

6) The Regency TR-1, the world's first commercial transistor radio. what was the year it first went on sale

Answer: (A) 1954

Bonus question How much did it cost: B) \$50

The Regency TR-1 was the first commercially manufactured transistor radio. First sold in 1954, it was a novelty due to small size and portability; about 150,000 units were sold despite mediocre performance. The device demonstrated the use of transistors for consumer electronics; previously transistors had only been used in military or industrial applications. Surviving specimens are sought out by collectors

7) Which British loud speaker manufacturer was founded by Guy Fountain in London England as the Tulsemere manufacturing company in 1926

Answer (C) Tannoy Ltd

Tannoy Ltd is a British manufacturer of loudspeakers and public-address (PA) systems. The company was founded by Guy Fountain in London, England as Tulsemere Manufacturing Company in 1926

8) Heinrich Hertz died on 1 January 1894. How old was he on his death?

Answer (A) 36 Years

Heinrich Rudolf Hertz (German: 22 February 1857 – 1 January 1894) was a German physicist who first conclusively proved the existence of the electromagnetic waves predicted by James Clerk Maxwell's equations of electromagnetism. The unit of frequency, cycle per second, was named the "hertz" in his honor

9) What would you associate with Bush House, from 1941 to 2012?

Answer (C) BBC World Service

Now part of the Strand Campus of King's College London, Bush House previously served as the headquarters of the BBC World Service. Broadcasting from Bush House lasted for 70 years, from winter 1941 to summer 2012. The final BBC broadcast from Bush House was the 12noon BST news bulletin on 12 July 2012.

10) What year did radio Caroline start broadcasting.

Answer (B) 1964

The Fredericia was renamed MV Caroline and anchored off Felixstowe, Suffolk, where it began test transmissions on Friday, 27 March 1964. On Saturday, 28 March, it began regular broadcasting at noon on 1520 kHz (announced as 199 metres) with the opening conducted by Simon Dee.

Bonus from 1983 what was the name of the boat from which radio Caroline was broadcast

Answer: Ross Revenge

The Ross Revenge started her broadcasting career in August 1983 and was out at sea until November 1991. The original Radio Caroline ship was formerly called the Fredericia and she broadcast from 28th March 1964 until 3rd March 1968. In July of 1964 Caroline merged with a rival station, Radio Atlanta.

ROUND TWO TECHNICAL

11) The invention capacitor dates back to 1745. what name was given to the first capacitor

Answer (C) The Leiden Jar

A Leyden jar (or Leiden jar) is an antique electrical component which stores a high-voltage electric charge (from an external source) between electrical conductors on the inside and outside of a glass jar. It typically consists of a glass jar with metal foil cemented to the inside and the outside surfaces, and a metal terminal projecting vertically through the jar lid to make contact with the inner foil. It was the original form of the capacitor (also called condenser).

Its invention was a discovery made independently by German cleric Ewald Georg von Kleist on 11 October 1745 and by Dutch scientist Pieter van Musschenbroek of Leiden

12) The Mullard C280 metallised polyester capacitors are better known by what name:

Answer (B) Tropical Fish

Although they are colloquially referred to as 'Tropical Fish' capacitors, their true moniker is the C280 Miniature Metallised Polyester Film Capacitor and they came in two voltage ratings, 250V and 400V wkg.

13) What would be the value of a ceramic disc capacitor labelled with the number 101

Answer (B) 100pf

Ceramic capacitors encoding consists 1-3 digits. If the capacitor code consist only 1 or 2 digits, it is simply their capacitance value in PicoFarads (pF). For example if a ceramic capacitor has a code '5' and other has '47', their respective capacitance values are 5 pF and 47 pF

14) If two 100nf capacitor are wired in series what is the total capacitance value

Answer (A) 50 nF

When capacitors are connected in series, the total capacitance is less than any one of the series capacitors' individual capacitances. ... If two or more capacitors are connected in parallel, the overall effect is that of a single equivalent capacitor having the sum total of the plate areas of the individual capacitors.

15) Radio tuning circuit most frequently employ which type of high tolerance capacitor

Answer (C) Silver Mica

Mica is a group of natural minerals. Silver mica capacitors are capacitors which use mica as the dielectric. There are two types of mica capacitors: clamped mica capacitors and silver mica capacitors. Clamped mica capacitors are now considered obsolete due to their inferior characteristics. Silver mica capacitors are used instead. They are made by sandwiching mica sheets coated with metal on both sides. This assembly is then encased in epoxy in order to protect it from the environment. Mica capacitors are generally used when the design calls for stable, reliable capacitors of relatively small values. They are low-loss capacitors, which allow them to be used at high frequencies, and their value does not change much over time.

Read more <http://www.capacitorguide.com/mica-capacitor/>

16) How many picofarads in a microfarad?

Answer: (C) 1 Million

The answer is 1.0×10^{-6} . We assume you are converting between microfarad and pF. You can view more details on each measurement unit: μF or pF The SI derived unit for capacitance is the farad. 1 farad is equal to 1000000 μF , or 1000000000000 pF

17) What does SCR stand for?

Answer (B) Silicon Controlled Rectifier

A silicon controlled rectifier or semiconductor controlled rectifier is a four-layer solid-state current-controlling device.

The principle of four-layer p-n-p-n switching was developed by Moll, Tanenbaum, Goldey and Holonyak of Bell Laboratories in 1956.

18) Where would you tune a radio dial for a signal that has the same numeric value of frequency in MHz and wavelength in meters.

Answer CC) 17.3 Mhz

17.320508 MHz = 17.320508 meters

19) What mode of modulation does the VHF air band use.

Answer: (B) AM

There are AM radios on VHF frequencies and FM radios on VHF frequencies. Capture Effect is why AM modulation is used for aircraft. AM is used for medium frequency (526 KHz to 1606 KHz) radio because it was the least expensive option with the service was established.

20) What current will flow through a 48 ohm resistor when connected to a 24V supply.

Answer (B) 500 mA

$$24/48 = 0.5A = 500mA$$

General Radio Knowledge Round

21) NAD amplifier company was founded in London, England, in 1972 by Dr. Martin L. Borish.
NAD's most famous product is NAD 3020 integrated amplifier. But What does NAD stand for

Answer (C) New Acoustic Dimension

22) Which radio manufacturing brand produced the following models: Jewel, Nomad De-Luxe , MAYFAIR 6150

Answer (B) Dynatron

23) What does the amateur radio Q code of QSY mean?

Answer (C) Change your operating frequency

The original Q-codes were created, circa 1909, by the British government as a "list of abbreviations ... prepared for the use of British ships and coast stations licensed by the Postmaster General"

QSY. (radio slang, question) Shall I change to transmission on another frequency?
(radio slang, statement) Change to transmission on another frequency (or on ... kHz (or MHz)).

24) What is the name of the Archers' family farm in radio soap The Archers?

Answer (B) Brookfield

Brookfield Farm is a 469-acre (190 ha) mixed farm which was managed by Dan Archer and then by his son Phil. After Phil's retirement in 2001, his son David Archer took over.

25) In the 1980 BBC two comedy The Young Ones, who was encouraged to "eat the television"

Answer (A) Vyvyan

26) What is the frequency of Radio 4 Long Wave

Answer (A) 198 kilohertz

Radio 4 can be found on the following channels, frequencies and websites:
DAB Listed as "BBC Radio 4", "BBC R4", or "Radio 4" FM 92 - 95 FM, 103-105 FM. LW 198 Long Wave.

27) Hacker Radio Top Trumps, which of the following radio contains the most transistors

Answer (B) RP25 Sovereign II

RP25 Soverign II	16 transistors
RP34 Democrat	9 Tranistor
RV20 Mayflower II	is a valve set Dummy!

28) Which of the following radio manufacturers holds a royal warrant.

Answer (C) Roberts Radio Ltd

<https://www.royalwarrant.org/company/roberts-radio-ltd>

29) Name the 1981 debut single by American alternative rock band R.E.M.

Answer (B) Radio Free Europe

Radio Free Europe (song) Single by R.E.M. "Radio Free Europe" is the debut single by American alternative rock band R.E.M., released in 1981 on the short-lived independent record label Hib-Tone.

30) In amateur radio What does the abbreviation WARC stand for:

Answer (A) World Administrative Radio Conference

The World Administrative Radio Conference (WARC) bands are three portions of the shortwave radio spectrum used by licensed and/or certified amateur radio operators. They consist of 30 meters (10.100-10.150 MHz), 17 meters (18.068-18.168 MHz) and 12 meters (24.890-24.990 MHz).

31) On 27th June 2014 changes were made to the UK CB licence regulation allow what:

Answer (C) AM-SSB operating modes <<<<<<<<<

On 27th June 2014 changes were made to the UK licence to allow the use of AM & SSB modes on CB in the UK legally for the first time. Only approved radios are legal to use

END
