

The opening picture is of the original BBC Colour "Test Card F" from 1967. Carol, the 8-year old girl in the picture, was the daughter of the engineer-in-charge of the department, George Hersee.

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Q1. "Hi, Bill" because Guglielmo is the Italian equivalent of William.

Q2. The film was "Contact" which was produced in 1997 by Warner Brothers.

Q3. Norway - it is one of the few countries currently hunting whales.

Q4. G5RV - Louis Varney of antenna fame.

Q5. 1200 - There are more but a limit has to be set somewhere.

Q6. 25% - follow the 3:1 marking down to the 50W mark on the 200W scale.

Q7. Martin and Scottie are SSTV modes to be found on 3730kHz.  
The mug shots are NOT the eponymous individuals.

Q8. The very first transistor.

Q9. FM - not AM because there is no carrier and not SSB because there are several sidebands.

Q10. The "D" layer because most low-frequency absorption takes place there.  
It disappears around sundown and appears again at sunrise.

Q11. dit-dit-dit-dah-dit-dah - SK or VA when run together.

Q12. He stayed with his vessel until about an hour before it went down.

Q13. Collins Radio although they were actually manufactured by a variety of companies.

Q14. This is PSK31 that was invented by Peter Martinez, G3PLX.

Q15. 300 ohms - a loss-less half-wave of feeder repeats the load impedance at the antenna feed point.

Q16. ARPANET - the first message was sent out in October 1969.

Q17. "GAB" - the repeater access tones given have these letters assigned.

Q18. The "Third Method" that was invented by Donald Weaver.  
SDR receivers use a similar topology.

Q19.  $12V_{rms} \times 1.414$  less a small diode drop = 16.7V(approx).

Q20. Manhattan, Dead-Bug or Ugly construction are all possible names.

Q21. Radio Astronomy - which shows just what some amateurs are capable of.

Q22. HV - The Vatican.

Q23. Grid Dip Oscillator - This Millen GDO uses semiconductors so there is no grid circuit.

Q24. Reversals - RYRYRYRYRYRYRYRYRY and so on.

Q25. An electrified 'BUG' hence the name for this style of key.

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