

**SARC FOUNDATION LICENCE COURSE
ANSWERS TO PRACTICE EXAM No.1**

1	D	Power must be turned off first, look for danger, do not become a casualty yourself
2	B	
3	C	3 decibels = double the radiated power
4	B	If antennas are disconnected, high voltages and current can't reach your equipment
5	A	Only the ACMA keeps station location information
6	C	
7	D	
8	C	From 30 to 300 MHz is considered to be VHF (very high frequency)
9	A	The wavelength for 146 MHz is about 2 metres, so a half-wave is about 1 metre
10	C	
11	D	
12	B	
13	A	The 'inverse square law' applies, double the distance, ¼ the signal strength.
14	D	Give the callsign at the start, then at least every 10 minutes
15	B	
16	C	ERP is transmitter power multiplied by antenna gain
17	A	$I = E/R$ $12/24 = 0.5$ amps = 500 milliamps
18	A	MAYDAY is only used in a life-threatening situation
19	A	Over-modulation produces distortion, with harmonics outside of the normal bandwidth
20	B	
21	D	For example, a computer that can operate properly on the same table as a radio
22	B	
23	B	The oscillator produces unmodulated signals which go to the modulator
24	D	
25	B	The amateur LCD specifies the bands that you can use