Exam: Amateur Radio Examination Foundation Level Syllabus V1.6

Centre: RSGB (RSGB - ONLINE REMOTE INV)

Date: Thursday, 01 Aug 2024



1. The Regional Secondary Locator W in the prefix of an amateur call sign, if used, refers to

1A2.2758

- A. Northern Ireland.
- B. England.
- C. Wales.
- **D.** Scotland.
- 2. To correctly identify your station in accordance with your Licence you MUST state

1A4.4045

- **A.** the callsign of the station you are in contact with and your Callsign.
- **B.** your Callsign in voice or the mode of transmission you are using.
- **C.** your name and the callsign of the station you are using.
- **D.** your Callsign and then the Callsign of the station you are in contact with.
- 3. Apart from a CQ call the amateur licence does not permit

1C1.3359

- **A.** talking about a programme heard on the BBC.
- **B.** transmitting to anybody who happens to be listening.
- **C.** allowing other people to overhear your transmissions.
- **D.** transmitting to more than one person.
- **4.** If you are required to keep a log of your transmissions, the items you need to record are

1D2.2191

- **A.** whatever you consider appropriate to record.
- **B.** the dates and times of any alleged interference.
- **C.** whatever the complainant asked you to record.
- **D.** whatever an Ofcom official has asked you to record.
- What is the radiated power level above which an EMF (electromagnetic field) assessment must be carried out?

1G1.8044

- A. 1W EIRP
- B. 1W ERP
- C. 10W EIRP
- **D.** 10W ERP

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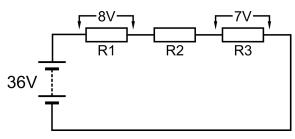
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- **6.** What is the status of UK amateur satellite service on 430.5MHz?
- 1H1.7528
- **A.** Not allocated.
- **B.** Primary.
- **C.** Primary shared.
- **D.** Secondary.
- **7.** What is the voltage across R2 in the circuit shown?

2C2.7717.3



- **A.** 21A
- **B.** 20A
- **C.** 20V
- **D.** 21V.
- **8.** The unit of frequency is the

2E1.4494.1

- A. hertz
- B. amp
- C. watt
- **D.** volt.
- **9.** A diagram of the electronics of a handheld radio has a device labelled 'DAC'. It is likely that this device

2F2.7720.2

- **A.** takes the digital signal from the radio's memory and amplifies it to a suitable level for headphones
- **B.** processes the data stream into regular samples suitable for storing in the radio's memory
- **C.** catalogues the data signals and produces a display of the frequency the radio is tuned to
- **D.** takes a digital signal from the radio's memory and turns it into an analogue signal.

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10. When an audio frequency is mixed with a radio frequency, which one of the following is produced?

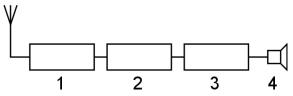
3A3.4589.1

- A. Carrier wave
- B. A direct current
- C. Harmonics
- D. Sidebands.
- **11.** A poorly designed frequency generator stage in a transmitter may

3C1.4634.1

- **A.** risk damaging the antenna
- **B.** damage the power supply
- **C.** cause the transmitter to radiate outside the amateur bands
- **D.** risk damage to the audio stage or the microphone.
- 12. In the block diagram of a radio receiver shown, what is the function of the box marked '1'?

3H2.4687.1



- A. Tuning and RF amplifier
- B. Detection
- C. Antenna
- **D.** Audio amplifier.
- **13.** The device used to correctly connect a dipole antenna to coaxial feeder is called

4B1.4724.1

- A. a dummy load
- B. a balun
- C. an SWR meter
- **D.** a yagi.
- **14.** An antenna will

4C1.4731.1

- A. pick up radio signals and convert them into electrical signals
- **B.** provide an RF earth
- **C.** work equally well at all frequencies
- **D.** reflect radio waves away from the transmitter.

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15. Damage to an antenna will be most evident inside the station on the

4E2.4807.1

- A. transmitter frequency display
- B. transmitter output meter
- C. standing wave ratio meter
- **D.** power supply voltmeter.
- **16.** The ionosphere is located at heights above the ground between

5B1.4849.1

- **A.** 7m and 40m
- **B.** 7km and 40km
- **C.** 70ft and 400ft
- **D.** 70km and 400km.
- 17. A radio amateur wishes to receive from a greater range on VHF and UHF. Which option is likely to be most successful?

5C3.4892.1

- **A.** Place the antenna on the ground in the garden
- B. Use UHF for greatest range
- **C.** Increase the antenna height to above surrounding roofs
- **D.** Double the receiving station's transmitter power.
- **18.** A radio amateur is operating on 145.5MHz. Which of the items in the 'shack' is most likely to suffer interference?

6A4.4910.1

- **A.** An HF receiver on 14.1MHz
- **B.** An electric digital clock
- **C.** A computer
- **D.** A VHF receiver on 144.25MHz.
- 19. Clicks and a buzz on a mobile receiver in a vehicle can be due to

6F3.4974.1

- **A.** locating the antenna in an exposed location on the roof
- **B.** the use of battery power rather than mains power
- **C.** battery charging and vehicle ignition systems
- **D.** the lack of an actual earth lead to divert the electrical noise.

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20. The Station Log will be of assistance in tracing the cause of an interference problem experienced by a neighbour, because

6G2.4986.1

- A. the licence requires you to keep a Log of your transmissions
- **B.** the station you contacted might be the source of the interference
- **C.** it will be useful to compare the times of the interference with the times of transmission
- **D.** the local authority will want a copy of your Log in order to deal with the complaint.
- **21.** When you are calling "CQ" on 145.500MHz and another station replies you should

7A3.3140

- **A.** remain on this frequency.
- **B.** state your name and location.
- **C.** exchange signal reports.
- **D.** arrange to move to a clear channel.
- Operating just above the 2 metre amateur band (144.0-146.0MHz) is not legal and may interfere with

7B2.3044

- **A.** broadcasting.
- **B.** radio astronomy
- C. space operations
- **D.** mobile (except aeronautical mobile).
- 23. When borrowing or lending a digital voice (DV) radio you must

7F1 8026

- **A.** use the original owners callsign but say who is actually using the radio.
- **B.** re-register the radio with the RSGB or local digital repeater group.
- **C.** ensure the embedded digital callsign is changed to the callsign of the actual user.
- **D.** remember to give your callsign in voice to override the embedded details.
- **24.** When checking mains equipment, it is necessary to

8A6.5126.1

- **A.** use only non magnetic tools
- **B.** disconnect the unit from the mains supply
- C. remove the earth wire from the mains plug
- **D.** remove the earth wire from the equipment.

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25. When using a ladder to erect a new antenna you should

8C2.5179.1

- **A.** only use a wooden ladder
- **B.** ensure that you are the only person in the area
- **C.** set the ladder at the correct angle (1up to 4 out)
- **D.** set the ladder at the correct angle (4 up to 1 out).
- **26.** The ICNIRP is of interest to amateurs because it

8D2.5206.1

- A. produces guidance on the safe levels of RF exposure
- B. co-ordinates the launch of amateur and other satellites
- **C.** produces the International version of the Amateur Band Plans
- **D.** oversees the preparation of the International Radio Regulations.

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Answers FOUNDATION MOCK PAPER 2

Question	Answer	Question	Answer
1	С	14	А
2	В	15	С
3	В	16	D
4	D	17	С
5	С	18	D
6	А	19	С
7	D	20	С
8	А	21	D
9	D	22	D
10	D	23	С
11	С	24	В
12	А	25	D
13	В	26	А