



Candidate: FOUNDATION, Mock THREE

Exam: Amateur Radio Examination Foundation Level - **Syllabus V1.6b**

Centre: RSGB (RSGB – ONLINE REMOTE INV)

Date: Friday, 17 April 2026

1. Which item below is a type of UK amateur licence?

1A2-2025-Foundation2437

- A Intermediate.
- B Senior.
- C Technician.
- D Beginner.

2. The Station callsign must be transmitted

1A4-2025-Foundation2452

- A when the entry is made in the log book.
- B at the end of each transmission.
- C every half hour and when the Station is closing down.
- D at the beginning of a transmission on a new frequency.

3. Which of the following messages is NOT permitted by the Foundation licence?

1C2-2025-Foundation2463

- A A reply to a "CQ" call.
- B Agreeing to meet at the radio club.
- C A secret message to a radio amateur friend.
- D A message in Morse code.

4. When MUST a Foundation licensee keep a log of transmissions?

1D2-2025-Foundation2189

- A When in another Region of the UK.
- B When a contest is being held in the same frequency band as you are operating.
- C When operating from a Temporary Location.
- D When instructed to do so by an Ofcom official.

5. An amateur determines that the station is compliant with the EMF requirements set out in the amateur licence. What must then be done?

1G1-2025-Foundation7979

- A Enter the date of the compliance check in the station log.
- B Keep a record showing how the station is compliant.
- C Send a copy of the relevant calculations to Ofcom.
- D Send a copy of the relevant calculations to the RSGB.



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6. The highest frequency allocated to Foundation Licensees is

1H1-2025-Foundation3166

- A 440.0MHz.
- B 10500MHz.
- C 52.0MHz.
- D 146.0MHz.

7. In a resistor there is a transfer of energy from

2B1-2025-Foundation2282

- A chemical energy to electrical energy.
- B electrical energy to chemical energy.
- C thermal energy (heat) to electrical energy.
- D electrical energy to thermal energy (heat).

8. In which amateur band are frequencies between 28.225 and 28.300MHz?

2E7-2025-Foundation2876

- A 10 metres.
- B 30 metres.
- C 15 metres.
- D 40 metres.

9. Analogue signals

2F1-2025-Foundation8002

- A Are a stream of finite values at a specific sampling interval.
- B Are constantly changing in amplitude, frequency or both.
- C Are produced by an analogue to digital converter.
- D Must be processed by a computing device with suitable software.

10. Amplitude modulation (AM) produces

3A3-2025-Foundation987

- A a radio frequency signal which is changing in frequency.
- B a single sideband with no carrier.
- C two sidebands and a full carrier.
- D a single sideband with a full carrier.



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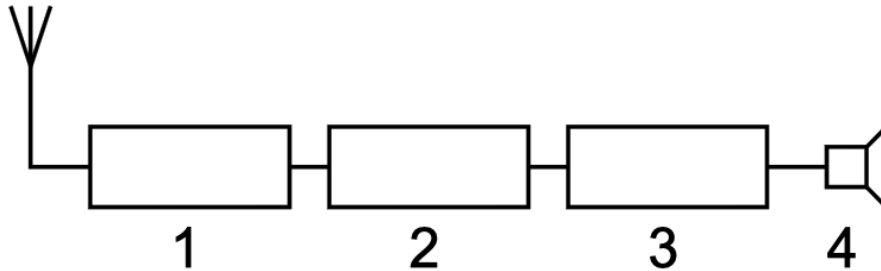
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11. The microphone amplifier in an analogue amateur radio transmitter limits the audio frequencies to the range

3E1-2025-Foundation7724

- A 20Hz to 15kHz.
- B 300Hz to 3000Hz.
- C 300Hz to 15kHz.
- D 50Hz to 300Hz.

12. In which block of the radio receiver shown is the audio modulation recovered?



3H2-2025-Foundation3464

- A Block 4.
- B Block 1.
- C Block 3.
- D Block 2.

13. A balun is

4B1-2025-Foundation2617

- A used instead of a dummy load.
- B a particular type of antenna.
- C used to connect a dipole to coaxial cable.
- D a type of feeder.

14. A particular yagi antenna has a gain of 3 times. Which transmitter will result in an ERP of 60W?

4C3-2025-Foundation2606

- A 20W.
- B 60W.
- C 15W.
- D 30W.



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15. A radio amateur has a single wire antenna for use on all the HF bands. What should be used to ensure the antenna can accept RF power from the transmitter on any of the bands?

4F1-2025-Foundation2614

- A A ferrite ring filter.
- B An antenna matching unit.
- C A voltmeter.
- D A power supply.

16. The ionosphere is

5B1-2025-Foundation2635

- A a type of spherical transmitting antenna.
- B another name for the air we breathe.
- C a piece of amateur radio test equipment.
- D conductive gasses at heights of 70 to 400km.

17. Where should a radio amateur place the antenna to achieve the best range?

5C3-2025-Foundation2633

- A On the roof.
- B On a tripod in the garden.
- C On the side of the house away from the distant Station.
- D In the lounge.

18. The audio from a medium wave broadcast receiver sounds distorted when an amateur transmitter is in use. A likely reason for this is

6A3-2025-Foundation2645

- A the signal from the amateur transmitter is causing interference.
- B that the electricity supply cannot power transmitters and receivers at the same time.
- C the transmitter is operating on the wrong sideband.
- D the broadcast receiver is not tuned in to the amateur transmitter.

19. What is the purpose of a ferrite ring on the mains lead of an equipment found likely to suffer from interference?

6D1-2025-Foundation2664

- A The ferrite ring will ensure the interference on each of the mains wires is equal.
- B The ferrite ring will avoid the need for the equipment to be earthed.
- C The ferrite ring will minimise unwanted signals leaking out of the affected equipment.
- D The ferrite ring will minimise any RF on the mains lead from entering the equipment.



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20. Which organisation produces guidance on dealing with cases of interference?

6G1-2025-Foundation1907

- A The Radio Society of Great Britain.
- B The local authority planning department.
- C The Police.
- D A User Service.

21. The reason for having a calling channel is to

7A3-2025-Foundation2688

- A follow the licence conditions.
- B maximise interference to other callers.
- C contact other club members.
- D provide a known frequency where contacts may be established.

22. During a conversation via a UHF amateur repeater it is noted that after a couple of minutes a beeping tone is heard on the audio of the repeater. It is likely that this tone

7C1-2025-Foundation232

- A indicates a malfunction in the repeater.
- B is a time-out tone added to overly long 'overs'.
- C is due to a beat note between the input and output audio signals.
- D indicates the need for CTCSS access to the repeater.

23. Which of the following frequencies should be avoided for terrestrial contacts?

7G1-2025-Foundation204

- A 145.900MHz.
- B 144.050MHz.
- C 145.500MHz.
- D 144.300MHz.

24. An important difference between a fuse and an RCBO (Residual current Circuit Breaker with Overload protection) is that

8A5-2025-Foundation8015

- A a fuse protects against excessive currents but an RCBO will also detect small currents to earth.
- B a fuse will blow if the live wire is touched but an RCBO is unlikely to respond to that event.
- C an RCBO does not provide all the protection of a properly fitted and rated fuse.
- D an RCBO must not be used if there is a fuse in the plug of any appliances that will be used.



25. When climbing a ladder to erect an antenna

8C1-2025-Foundation1115

- A maintain a good electrical connection with earth using a length of wire.
- B choose a very dry day to reduce the effects of static charge.
- C always use the help of an assistant to hold the ladder.
- D always use a wooden ladder to avoid electric shock.

26. It is dangerous to touch a transmitting antenna because

8D4-2025-Foundation2738

- A a shock or burn may occur.
- B damage may be caused to the transmitter.
- C the SWR will be changed.
- D the signal will not be transmitted properly.



## Answers FOUNDATION MOCK PAPER 1

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