Sample Foundation Theory Assessment Paper

Question 1. **A call over radio involving safety of life is referred to as:**

A) a dire emergency
B) a distress call
C) an urgency call
D) a security call

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Question 2. **An urgent situation not involving the safety of life is called:**

A) an emergency call
B) a urgency call
C) a high priority call
D) a sub-distress call

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Question 3. **A radio amateur should announce their callsign:**

A) during silent periods
B) at the beginning of the first transmission and then at least every 10 minutes
C) at the beginning and end of every transmission
D) at the beginning and end of a series of transmissions

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Question 4. **A foundation licensee can allow an unqualified person to operate their station:**

A) if the foundation licensee is present at all times
B) if the foundation licensee announces his callsign
C) if the other person says “second operator” after the callsign
D) a Foundation operator cannot supervise an unlicensed person

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Question 5. **An amateur radio licence authorises the holder to communicate with:**

A) other amateur radio operators and CB radio operators
B) other amateur radio operators only
C) any two-way radio services on HF (3-30 MHz)
D) Land mobile services

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Question 6. **An amateur radio operator must produce their licence if requested to do so by:**

A) a Wireless Institute of Australia inspector
B) a Wireless Institute of Australia assessor
C) an ACMA inspector
D) a Federal or State police officer

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Question 7. **A Foundation Licence operator must operate their station according to the rules in:**

A) the Foundation Licence Handbook 2007 as amended from time to time
B) the ACMA Licence Conditions Determinations (Amateur Licence) as amended
C) the ACMA Amateur Radio Operators Regulations handbook
D) the regulations as prescribed in the Wireless Institute of Australia handbook

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Question 8. **Which of the following are basic SI units of electricity:**

A) mhos, volts and amperes
B) kilovolts, milliamperes and cool-ohms
C) amperes, volts and ohms
D) inductance, capacitance and resistance

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Question 9. **The acronyms FM and AM as used in radio stand for:**

A) Frequency modulation and Amplitude modulation
B) Frequency modulation and Analogue modulation
C) Fremodyne modulation and Amplitude modulation
D) Fine Modulation (High fidelity) and Angular Modulation

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Question 10. **A radio receiver that can pick up weak signals is said to be:**

A) very broad bandwidth
B) very sensitive
C) highly selective
D) a low noise receiver

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Question 11. **When operating on amateur radio bands it is the operator's responsibility to ensure that their transmissions:**

A) remain completely inside amateur bands
B) are at least 3KHz from the band edges
C) are within a distance from the band edges as determined by the ACMA
D) are equal to or less then 0dBm outside the amateur band

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Question 12. **Using a frequency to wavelength conversion chart, the approximate length of a quarter wave antenna on 300 MHz would be:**

A) 0.25 metres
B) 1.0 metres
C) 300 metres
D) 0.5 metres

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Question 13. **An SWR reading of 2.5:1 would indicate:**

A) a satisfactory SWR
B) that the antenna was not resonant
C) that the antenna length must be shortened
D) that the antenna system needs adjustment

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Question 14. **The ionosphere is primarily charged by:**

A) your radio transmissions
B) ultraviolet radiation from the sun
C) cosmic radiation
D) ionospheric storms

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Question 15. **Long distance radio communication on HF is primarily due to:**

A) ionospheric ducting
B) tropospheric ducting
C) ionospheric refraction
D) radio waves trapped in the troposphere

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Question 16. **Radio Frequency Immunity of home electronic equipment means:**

A) the immunity of household appliances to power line interference
B) the ability of household appliances to reject noise
C) the ability of household appliances to reject radio frequencies
D) the requirement for household equipment to comply with Australian Standards

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Question 17. **The acronym EMC stands for:**

A) Electrical and Magnetic compatibility
B) Electromagnetic Compatibility
C) Engineering Minimum Compatibility
D) Electrical Maintenance Compliance

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Question 18. **An incorrectly adjusted antenna tuner may cause:**

A) interference to non amateur radio services
B) hum in the receiver
C) parasitic interference
D) polarisation of the radiated signal to change

Assessor ☐

Question 19. **Amateur radio, TV and Broadcast radio can suffer interference from:**

A) high voltage power lines
B) the phase of the moon
C) ionospheric ducting
D) Trans-equatorial interference

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Question 20. **During a thunderstorm an amateur station should:**

A) not be operated
B) be tuned to the international weather warning frequency
C) increase power to overcome lightning static
D) provide weather information

Assessor ☐

Question 21. **Antenna erection and rigging should be carried out:**

A) by persons with the necessary skills and safety equipment
B) by persons with a Amateur Radio Riggers Certificate II or higher
C) by persons with a Standard licence or higher
D) when three or more people are present one of whom must know CPR

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Question 22. **Cells and batteries contain chemicals that:**

A) are the same as those used in capacitors
B) give off explosive helium gas when they are charged
C) can burn the skin and corrode metals
D) make an inexpensive rust inhibitor

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Question 23. **Antennas and their fittings should:**

A) be higher than 5 metres at the lowest point
B) be made from non conductive materials
C) be kept well away from power lines
D) never cross buildings inhabited by people

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Question 24. **Radio waves can be dangerous. This danger increases with:**

A) frequency, power and proximity
B) power only
C) power and proximity
D) the instantaneous human radiation index

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Question 25. **Power measurements of a Foundation Operator's transmitter:**

A) must be made with a suitably calibrated power measuring device
B) may be calculated by the voltage and current of the power supply
C) can only be performed by a Standard or Advanced operator
D) must be conducted at the nominal temperature of twenty degrees Celsius

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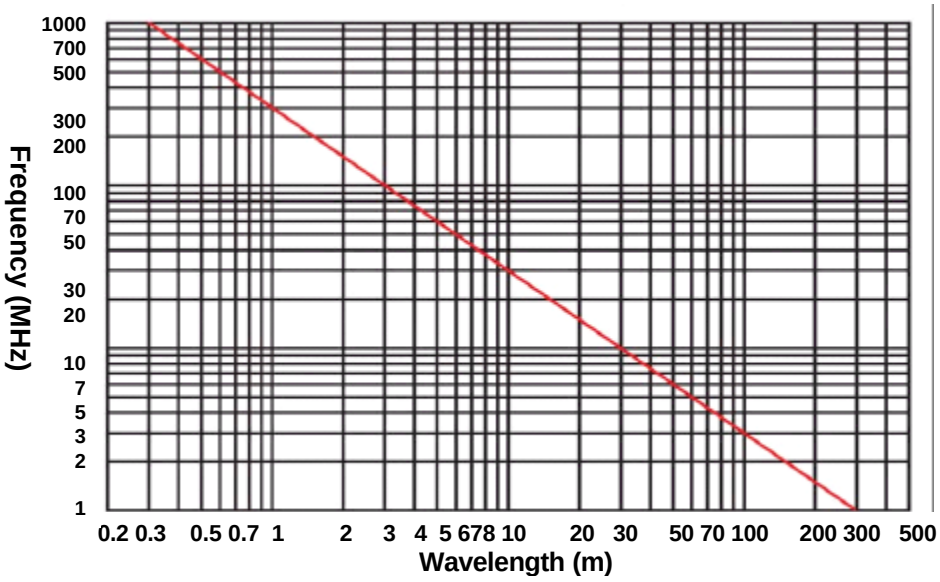

Answers

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