

Department of Examination, Sri Lanka  
EXAMINATION FOR THE AMATEUR RADIO OPERATORS CERTIFICATE OF PROFICIENCY ISSUED  
BY THE DIRECTOR GENERAL OF TELECOMMUNICATION OF SRI LANKA – FEBRUARY 1995  
(Advanced Class)

Index No:-.....

**LICENSING CONDITIONS, OPERATING PRACTICES AND PROCEDURES**

*Two hours*

*Answer all questions on this paper itself.. A minimum of 50 marks is required for a pass  
Choose the correct answer and underline it.*

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1 Spurious emissions include

- (a) Emissions in the immediate vicinity.
- (b) Results of the modulation process of transmission.
- (c) Harmonic emissions, parasitic emissions and intermodulation products.
- (d) Any emissions, radiation or induction which endangers the functioning of a radio navigation services.

2. An operating method in which transmission is made possible alternatively in each direction, is termed

- (a) duplex operation.
- (b) single side band operation
- (c) simplex operation.
- (d) facsimile transmission.

3. A single period when transmissions are exchanged between amateur station is termed

- (a) a jam session
- (b) a session.
- (c) Amateur service
- (d) periodic transmission.

4. THIRD PARTY in relation to communication between two or more amateur stations, mean

- (a) a person or authority who requests assistance in an emergency.
- (b) a person or authority to whom request for assistance is addressed.
- (c) any person other than an operator of an amateur station.
- (d) a third amateur station joining the communication.

5. SLOW SCAN TELEVISION means a system of telecommunication for the transmission of transient images of fixed or moving images using

- (a) narrow bandwidths.
- (b) broad bandwidths.
- (c) ultra high frequency bands.
- (d) low frequency bands.

6. An advanced class amateur shall have the ability to send correctly by hand and receive correctly by ear, in Morse Code, a message in plain English at a speed of

- (a) 10 words a minute for a continuous period of 3 minutes.
- (b) 15 words a minutes for a continuous period of 3 minutes.
- (c) 20 words per minutes.
- (d) 20 words per minutes for a continuous period of 3minutes.

7. The Advanced Class Amateur Licensee shall entitle an Amateur to make transmissions on,
- (a) any frequency band.
  - (b) on any of the frequency bands allotted to the Amateur Services using any type of emissions authorized for the band.
  - (c) any frequency band using any type of emission.
  - (d) any band used for public broadcasting under special circumstances.
8. Maximum power input to the final stage of the transmitter entitled to be used by an Advanced Class amateur is
- (a) 400 watts D.C. input on H.F. and 50 watts input on VHF and above.
  - (b) 300 watts D.C. input on H.F. and 50 watts input on VHF and above.
  - (c) 400 watts D.C. input on H.F. and 25 watts input on VHF and above.
  - (d) 400 watts D.C. input on H.F. and 10 watts input on VHF and above.
9. An Advanced Class amateur is permitted to use
- (a) secret codes.
  - (b) Exchange messages with , even, unlicensed radio stations.
  - (c) phone patch traffic.
  - (d) transmit the words of a third party which has been spoken publicly
10. It is permitted to supply radio frequency power to the antenna, for transmission under the following Conditions
- (a) for tuning purpose only.
  - (b) when an amateur repeater shall be operated.
  - (c) when amateur radio news bulletins are broadcast .
  - (d) for radio direction finding
11. Transmission of the CALL SIGN shall be made
- (a) F2A, G2A, J2A, R2A
  - (b) A1A, F3A, A2A, R2B
  - (c) A3E, F3E, J2E, R3E
  - (d) F2A, H2B, J2A, R2A
12. When using a telegraph code the call sign shall be transmitted using the following classes of Emissions.
- (a) G2A, F2A, H2A, R2A
  - (b) A3E, F3E, G3E, H3E
  - (c) F1B, F2B, J2B, R2B
  - (d) A2A, F1A, F2A, R2A

13. Messages received from another amateur station may be recorded and retransmitted, provided that the retransmission
- (a) includes the Call Sign of the original station.
  - (b) includes the Call Sign of the originating station at the beginning and the recording station call sign at the end of the recorded messages.
  - (c) is not permitted.
  - (d) is intended for reception by the original station.
14. Relaying of transmissions
- (a) is permitted with special licence issued by the Director General of Telecommunication.
  - (b) is permitted generally.
  - (c) is not permitted, unless with special approval.
  - (d) is permitted under emergency situation.
15. Amateur Repeater Station may be operated either in the frequency band
- (a) 142-144MHz or 435-440 MHz.
  - (b) 144-146 or 430-440 MHz
  - (c) 144-146 MHz or 435-440 MHz
  - (d) 144-146 MHz or 435-438 MHz
16. Your CALL SIGN is 4S7YY. You wish to operate your station from temporary location other than that given in the licence. Your CALL SIGN would be
- (a) 4S7YY
  - (b) 4S7YY/A
  - (c) 4S7YY/P
  - (d) 4S7YY/R
17. If you use the CALL SIGN 4S7YY/M, you would be operating a station from
- (a) a private car
  - (b) on board a passenger ship from COLOMBO to MADRASS
  - (c) on board an intercity train from Colombo to Kandy
  - (d) On board an aircraft.
18. A visiting amateur with foreign licence and call sign JE1VGE shall operate in English or any of the national languages of Sri Lanka and will have the call sign
- (a) 4S7/JE1VEG
  - (b) 4S7/R
  - (c) JE1VEG/4S7
  - (d) 4S7/JE1VEG/R
19. Which of the following need not be entered in the log of an amateur radio station operated in mobile vehicle?
- (a) Name of the operator of the mobile station.
  - (b) Location or route of the vehicle during these communications.
  - (c) Frequency band used.
  - (d) Classes of emissions used
20. On frequency bands below 30MHz, the peak envelope power of spurious emissions shall not exceed
- (a) 10 $\mu$ W
  - (b) mW
  - (c) 25 $\mu$ W
  - (d) 25mW

21. On frequency bands above 30MHz., the peak envelope power of the spurious emissions outside the frequency band allocated to the amateur radio service shall not exceed

- (a)  $10\mu\text{W}$       (b)  $10\text{mW}$       (c)  $25\mu\text{W}$       (d)  $25\text{mW}$

**Answers**

1. a      2. c      3. b      4. c      5. d      6. c      7. b      8. ??      9. d      10. b  
11. ??      12.      13. a      14. c      15.      16. b      17. a      18. c      19. b      20.  
21.

Q-1 (c) typing error:- Harmonic typed as Harminic (I corrected here)

Q-6 answer is "c" according to the old syllabus. No answer for new syllabus.

Q-7 Typing error:- the word "licence" should be "licensee" (I corrected here)

Q-8 No answer according to the current regulation

Answer is 1000 watts D.C. input on H.F. and 50 watts input on VHF and above.

Q-11 No answer. The call sign can transmit on any class of emissions without any restriction.

Q-20 typing error :- "(b) mW" not indicated how many Watts.

Q-21 typing error:- the word "amateur" typed as "anateur" (I corrected here)