**Microwave and Radiofrequency Radiation Safety Awareness Training Course Examination**

NAME:

DATE:

CODE/ORGANIZATION:

Choose the most appropriate answer(s).

1. Which of the following is not a spectral band designation?

A. ELF

B. UHF

C. HF

D. VLF

E. EMF

2. Which of the following is a type of RF/Microwave Generator

A. Klystron

B. Travelling Wave Tube

C. Magnetron D All of the Above E None of the above

3. The type of transmission line that is most efficient at transporting microwave frequencies?

A. Parallel Pair

B. Waveguide

C. Coaxial Cable

D. Shielded Pair

E. Twisted Pair

4. Known adverse biological effects from RF radiation are principally caused by?

A. High pitched hum

B. Tissue Heating

C. Coagulation of blood serum

D. Double strand DNA breaks

E. None of the above

5. A microwave oven should be checked for leakage when?

A. Door will not close properly

B. Unit operated while door is open or closed

C. Door screen is broken or missing

D. All of the above

E. None of the above

6. In terms of biological effect, the acronym SAR stands for?

A. Specified Antenna Range

B. Specific Absorption Rate

C. Synchronized Atomic Radiation

D. Scotoma And Retinitis E Standardized Anatomical Radar

7. A cataract can be the result of which of the following:

A. years of standing next to an operating microwave oven

B. cumulative exposure to cellular telephones

C. living under elevated power lines

D. exposure to a threshold power density exceeding 100 mW/cm2

E. none of the above

8. Exposure Standards for Uncontrolled Environment at Ames Research Center are designated for:

A. pregnant women

B. visitors participating in a tour of the Center

C. radio equipment repair personnel

D. Both A and B

E. Both B and C

9. You spend the morning working on an antenna tower. You go out for lunch. Your ATM, and all credit cards are denied. You come back to work and decide to complete some paperwork. Your eyes are bothering you. What should you do?

A. Take off early

B. Inform your supervisor and Immediately go to the Health Unit

C. Blame it all on bad karma and hope that tomorrow will be better

D. Don't tell anyone as you may get in trouble

E. None of the Above

9. All personnel who work with RF/Microwave systems capable of producing energy levels in excess of the Permissible Exposure Limits must.

A. Complete the Microwave and Radiofrequency Radiation Safety Awareness Training

B. Have a Safety Evaluation of system performed by the Safety Office

C. Submit Standard Operating Procedures (SOP) to the Non-Ionizing Radiation Safety Committee (NRSC) for Review

D. All of the above

**When completed, scan and send to Miriam Rodon@ Miriam.M.Rodon@NASA.gov.**