

**GEOGRAPHIC INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION CENTER
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***** EXAMINATION *****

RADIATION PROTECTION MANUAL

1. **Protons and neutrons are massive compared to:**
 - a) electrons
 - b) core
 - c) isotopes
 - d) none of above

2. **Isotopes of a particular element have:**
 - a) identical chemical properties
 - b) opposite chemical properties
 - c) no chemical properties
 - d) wrong chemical properties

3. **A group of radionuclides are referred to as:**
 - a) grams
 - b) numbers
 - c) colors
 - d) transuranics

4. **Alpha particles have:**
 - a) high specific ionization
 - b) short range
 - c) a double positive charge
 - d) all of above

5. **Gamma- and X-rays are referred to as:**
 - a) no radiation
 - b) direct radiation
 - c) indirectly ionizing radiation
 - d) removal radiation

6. **Individuals are continuously exposed to:**
 - a) x-ray
 - b) cosmic radiation
 - c) MRI
 - d) procedures

7. **Where is the CDE usually derived from:**
- a) internet
 - b) computer program
 - c) intelligence
 - d) biological
8. **A major site of radiation damage leading to cell death is**
- a) heart
 - b) liver
 - c) cell nucleus
 - d) atom
9. **A moderately radiosensitive cell is**
- a) osteoblasts
 - b) basal cells
 - c) fibrocytes
 - d) endothelial cells
10. **A very radiosensitive cell is**
- a) nerve cells
 - b) intermitotic cells
 - c) blood vessels
 - d) muscle cells
11. **How can radiation dose be reduced:**
- a) hiding
 - b) shielding
 - c) stay indoors
 - d) get very little x-rays
12. **Examples of dosimeter:**
- a) film badges
 - b) thermo luminescent
 - c) pocket ionization chambers
 - d) all of the above
13. **Instructs personnel in proper use of dosimeters:**
- a) RDO
 - b) RPO
 - c) RCO
 - d) RFO
14. **USACE personnel will use this**
- a) USANSDC
 - b) USAMC
 - c) USAIRDC
 - d) USARDIC

15. **Exposure related to the whole body:**
- a) hard
 - b) fragile
 - c) full
 - d) entire
16. **Skin exposure:**
- a) soft
 - b) cell
 - c) membrane
 - d) late
17. **The smallest particle of an element is**
- a) a nuclei
 - b) a nucleus
 - c) a cell
 - d) an atom
18. **A stream of high speed electrons is**
- a) an alpha ray
 - b) a beta ray
 - c) an alpha particle
 - d) an activity
19. **A negatively charged particle is**
- a) a neutron
 - b) an electron
 - c) a nucleus
 - d) an atom
20. **A special unit of dose equivalent is abbreviated as a:**
- a) ROV
 - b) ROM
 - c) REM
 - d) ROS

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*** ANSWER SHEET *** U429 RADIATION PROTECTION MANUAL	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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