**ITT ENVG EVALUATION AN/PSQ20**

|  |  |
| --- | --- |
| 1. What kind of batteries are recommended for the ENVG system? | |
|  | Any as long as they work |
| x | L91 AA Lithium batteries |
|  | AA Alkaline batteries |
|  | AA Rechargeable batteries |

|  |  |
| --- | --- |
| 2. What is the field of view for both I2 and Thermal? | |
| x | 30 Degrees I2, and 40 Degrees Thermal |
|  | 40 Degrees I2, and 30 Degrees Thermal |
|  | 50 Degrees I2, and 20 Degrees Thermal |
|  | 40 Degrees I2, and 40 Degrees Thermal |

|  |  |
| --- | --- |
| 3. I2 can see through glass. | |
| x | True |
|  | False |
|  | Only on rainy days |
|  | Only if they are looking through beer goggles |

|  |  |
| --- | --- |
| 4. Thermal can see through glass. | |
|  | True |
| x | False |
|  | Only on hot days |
|  | Only on cold days |

|  |  |
| --- | --- |
| 5. In what type of environment would you install the LIF? | |
|  | In a classroom environment |
|  | In a hostile environment |
| x | In an environment with possible laser threat |
|  | In a target rich environment |

|  |  |
| --- | --- |
| 6. While in fused mode, where can you find the knob that change’s your thermal operation? | |
| x | On the rear of the system on the bottom left, near your face |
|  | On the rear of the system on the bottom right, near your face |
|  | On top of the system |
|  | On the front of the system in the left center |

|  |  |
| --- | --- |
| 7. What does the diopter focus ring do? | |
|  | Adjusts the brightness of your display screen |
| x | focuses the display to your eye |
|  | Adjusts the system to the scene |
|  | Adjusts your eyecup from left eye to right eye |

|  |  |
| --- | --- |
| 8. What are the approximate hours of operation with new L91 lithium batteries in fused mode and remaining I2 only mode? | |
|  | Fused 8.2 hours I2 remaining 8 hours |
| x | Fused 7.5 hours I2 remaining 7.5 hours |
|  | Fused 9.3 hours I2 remaining 9.3 hours |
|  | Fused 8.5 hours I2 remaining 8.5 hours |

|  |  |
| --- | --- |
| 9. Where is the thermal objective lens? | |
|  | The top lens on the front of the system |
| x | The bottom lens on the front of the system |
|  | The lens on the back of the system, nearest to your face |
|  | The lens on your glasses |

|  |  |
| --- | --- |
| 10. What element is found in the thermal objective lens that could be hazardous if ingested? | |
| x | Germanium |
|  | Plutonium |
|  | Carbon |
|  | Neon |

|  |  |
| --- | --- |
| 11. How much more operation time do you have left when the I2 low battery indicator comes up? | |
|  | 45 min |
|  | 3 hours left of thermal operation |
| x | 30 min |
|  | 5 min |

|  |  |
| --- | --- |
| 12. How do you manually calibrate the thermal sensor? | |
|  | Press the thermal button |
|  | Press the I2 button |
|  | It automatically calibrates every 10 minutes |
| x | Press the I2 and thermal buttons at the same time |

|  |  |
| --- | --- |
| 13. What is the purpose of outline mode? | |
|  | To let you know that you don’t have enough battery life for full thermal |
|  | To see who would look best as a cartoon |
| x | To give you the best opportunity to see your night laser in fused mode |
|  | To show where the enemy is |

|  |  |
| --- | --- |
| 14. How many different stowed positions are there and what are they? | |
|  | 1 – Stow up |
| x | 3 – Quick stow right/left, Quick stow up, Full stow |
|  | 6 – Quick stow right, Quick stow left, Rapid stow, Quick stow up, Full stow right, Full stow left |
|  | 2 – Quick stow, Full stow |

|  |  |
| --- | --- |
| 15. What does the red LED indicator indicate? | |
|  | Low battery |
|  | System malfunction |
| x | IR Illuminator is active |
|  | Lets you know you’re in fused mode |

|  |  |
| --- | --- |
| 16. Where do you use the demist towelettes? | |
|  | Any lenses |
| x | Eyepiece lens only |
|  | Eyepiece lens and I2 lens |
|  | Eyepiece lens and the thermal lens |

|  |  |
| --- | --- |
| 17. Can the sacrificial window be used with the LIF? | |
| x | No |
|  | Only in sandy conditions |
|  | Only with the 3X installed |
|  | Yes if you hold it up there the entire time |

|  |  |
| --- | --- |
| 18. When do you perform a PMCS? | |
|  | After using the system only |
|  | Before using the system only |
|  | Only when you have a problem |
| x | Before, during and after using the ENVG system |

|  |  |
| --- | --- |
| 19. When does the thermal and I2 scene align? | |
| x | 45 meters |
|  | 7 meters |
|  | 15 meters |
|  | 50 meters |

|  |  |
| --- | --- |
| 20. What is the maximum tolerance for the offset be between the I2 and thermal scene under 45m? | |
|  | A full head |
|  | There should be no offset |
| x | About half a head |
|  | Half a body |