Pass  Fail

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name:** |  |  |  |  | **Date:** |  |

1. The optimum search altitude is between \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ feet AGL at an airspeed of \_\_\_\_\_\_\_\_\_\_ knots.
2. Define the following terms:
   1. Track Spacing –
   2. Search Visibility –
   3. Scanning Range –
3. List 4 of the factors that affect scanning effectiveness.
   1. .
   2. .
   3. .
   4. .
4. Define the term - *Area of Central Vision.*
5. Lines of Longitude on a map run  East and West  North and South
6. Lines of Longitude on a map run  East and West  North and South
7. 0ᵒ longitude is also known as –
8. Describe the scanning technique which produces the optimal search area coverage.
9. Match the visual search pattern and its description.

|  |  |  |
| --- | --- | --- |
| a. Creeping Line |  | 1. Used when the search area is large and only the approximate location of the target is known |
| b. Expanding Square |  | 1. Used when the track of the aircraft is known from a fixed position |
| c. Route Search |  | 1. Used to search narrow, long areas from a known starting point. |
| D. Parallel Track |  | 1. Used when the position of the target is known. |

1. Scanning distance is generally greater then search visibility; depending on environmental factors.  True False
2. Ram #1 Begins its Sunset Patrol at Checkpoint \_\_\_\_\_ and RAM #2 begins its Sunset Patrol at Checkpoint \_\_\_\_\_.
3. List the minimum equipment required by each aircrew.
   1. .
   2. .
   3. .
   4. .
   5. .
4. Match the following tasks with the aircrew member primarily responsible for the Task

(**P** - Pilot **O** – Observer **B** – Both Pilot and Observer)

|  |  |  |
| --- | --- | --- |
| a. | Mission Commander |  |
| b. | Navigation |  |
| c. | Communications |  |
| d. | Traffic Avoidance |  |
| e. | Logs, Pictures, etc. |  |
| f. | Mission Debrief |  |
| g. | Search Planning |  |
| h. | Visual Search |  |
| i. | Safety of Flight |  |

1. Who has the final say as to whether the aircraft launch for a Sunset Patrol, Survey Flight or any other mission?
2. Determine the coordinates of Barnegat Light from the following Chart:



Latitude \_\_\_\_\_\_\_ᵒ\_\_\_\_\_\_\_’ Longitude \_\_\_\_\_\_\_ᵒ\_\_\_\_\_\_\_’