

Texas Wildlife and Recreation Management

Form #: 710TX-5

Team Name
Key #1 - Rusk

Team Number

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Last Name										First Name									
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

Code

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Part 1: Plant Identification						Part 2: Pref Plants									
ID	Number	Plant Identification Digits									ID	Species			
		1 st	2 nd			3 rd			1	2		3	None		
A	174	0	1	2	3	4	0	1	2	3	A		Y	Y	N
B	123	0	1	2	3	4	0	1	2	3	B	Y	Y		N
C	139	0	1	2	3	4	0	1	2	3	C		Y	Y	N
D	188	0	1	2	3	4	0	1	2	3	D	Y	Y		N
E	132	0	1	2	3	4	0	1	2	3	E			Y	N
F	169	0	1	2	3	4	0	1	2	3	F			Y	N
G	205	0	1	2	3	4	0	1	2	3	G	Y			N
H	142	0	1	2	3	4	0	1	2	3	H			Y	N
I	170	0	1	2	3	4	0	1	2	3	I				N
J	146	0	1	2	3	4	0	1	2	3	J		Y	Y	N
K	202	0	1	2	3	4	0	1	2	3	K	Y			N
L	203	0	1	2	3	4	0	1	2	3	L		Y	Y	N
M	171	0	1	2	3	4	0	1	2	3	M	Y	Y	Y	N
N	125	0	1	2	3	4	0	1	2	3	N	Y	Y	Y	N
O	191	0	1	2	3	4	0	1	2	3	O		Y	Y	N

Part 3: Biological Facts

1	A/T	B/F		D	E
2	A/T	B/F		D	E
3	A/T		C	D	E
4	A/T	B/F		C	E
5	A/T	B/F		D	E
6	A/T	B/F		C	E
7	A/T	B/F		C	E
8	A/T	B/F		C	D
9	A/T	B/F		C	E
10	A/T	B/F		C	E
11	A/T	B/F		C	D
12	A/T	B/F		C	E
13	A/T		C	D	E
14		B/F		C	E
15	A/T	B/F		C	D
16		B/F		C	E
17	A/T	B/F		C	E
18	A/T	B/F		C	D
19	A/T		C	D	E
20	A/T		C	D	E

Part 4: Habitat Evaluation

Species 1

Food A D

Cover A D

Water A D

Species 2

Food A D

Cover A D

Water A D

Species 3

Food A D

Cover A D

Water A D

A = Adequate
D = Deficient

Part 5: Habitat Management

Apply this practice?	Species			
	1	2	3	None
Animal Damage	Y	Y	Y	
Population Management		Y	Y	N
Brush Management	Y	Y	Y	N
Cropland Management	Y	Y	Y	N
Food Plots	Y	Y	Y	
Grazing Management	Y	Y	Y	
Prescribed Burning		Y	Y	N
Provide and Manage Water	Y	Y	Y	
Range Planting	Y	Y	Y	N
Disking	Y	Y	Y	
Overseeding Legumes	Y	Y	Y	
Thin Timber				N
Retain Large Hardwoods				N
Streamside Management Zones				N
Playa Lake Management	Y	Y	Y	N
Cover & Windbreaks	Y	Y	Y	N
Residue Management	Y	Y	Y	N
Deaden Hardwoods	Y	Y	Y	N
Construct Firebreak/Access Roads	Y	Y	Y	N
Leave Unmowed Strips	Y	Y	Y	N
Clear Cut Patches in Timber	Y	Y	Y	N

Part 6: Fish & Game Laws

1		B/F	C	D	E
2	A/T		C	D	E
3	A/T		C	D	E
4		B/F	C	D	E
5	A/T	B/F		C	E
6	A/T	B/F		C	E
7	A/T		C	D	E
8	A/T		C	D	E
9	A/T	B/F		C	E
10		B/F	C	D	E
11	A/T	B/F		C	E
12	A/T	B/F		C	E
13	A/T	B/F		C	E
14	A/T	B/F		C	E
15	A/T	B/F		C	E

Part 7: Safety

1	A/S		C	D	E
2		B/U	C	D	E
3	A/S	B/U		C	E
4	A/S		C	D	E
5	A/S	B/U		C	E
6		B/U	C	D	E
7	A/S		C	D	E
8	A/S	B/U		C	E
9	A/S	B/U		C	E
10	A/S		C	D	E
11	A/S		C	D	E
12	A/S	B/U		C	E
13		B/U	C	D	E
14	A/S	B/U		C	E
15	A/S	B/U		C	E

S = Safe
U = Unsafe

Part 8: Techniques

1		B/F	C	D	E
2	A/T		C	D	E
3		B/F	C	D	E
4	A/T	B/F		C	E
5	A/T		C	D	E
6	A/T		C	D	E
7	A/T	B/F		C	D
8	A/T		C	D	E
9		B/F	C	D	E
10	A/T		C	D	E
11	A/T		C	D	E
12	A/T		C	D	E
13		B/F	C	D	E
14		B/F	C	D	E
15		B/F	C	D	E
16		B/F	C	D	E
17		B/F	C	D	E
18	A/T		C	D	E
19	A/T	B/F		C	E
20	A/T	B/F		C	E

-0

<--Construct Firebreaks / Access Roads
<--Leave Unmowed Strips
<--Clear Cut Patches in Timber

Rusk FFA Invitational Wildlife CDE- 2015

Biological Facts- Contest #1

1. Prime antler development in white-tailed deer occurs when a buck is __?__ to __?__ years old because body growth has ceased.
 - A. 3 to 4
 - B. 4 to 5
 - C. 5 to 6**
 - D. 6 to 7
 - E. None of the above
2. The whitetail doe is receptive to a buck for about __?__ hours during estrus.
 - A. 12
 - B. 24
 - C. 28**
 - D. 36
 - E. None of the above
3. New mule deer antlers fully develop in __?__ days.
 - A. 42
 - B. 150**
 - C. 200
 - D. 215
 - E. None of the above
4. Pronghorn antelope will go under fences that have __?__ to __?__ inches of clearance.
 - A. 8 to 12
 - B. 10 to 12
 - C. 12 to 14
 - D. 14 to 16**
 - E. None of the above
5. Which of the following requires no protective vegetative cover?
 - A. Javelina
 - B. Mule deer
 - C. Pronghorn antelope**
 - D. Scaled Quail
 - E. Whitetail deer

6. Young javelina weigh about one pound at birth and are __?__ in color with a dark dorsal stripe.
- A. Grayish
 - B. Reddish
 - C. Yellowish
 - D. Both B & C
 - E. None of the above
7. The scientific name for Javelina is __?__.
- A. Collared peccary
 - B. *Colinus virginianus*
 - C. *Sus scrofa*
 - D. *Tayassu tajacu*
 - E. None of the above
8. On average, hardwood trees must be __?__ years old to provide den cavities for squirrels.
- A. 10
 - B. 20
 - C. 25
 - D. 35
 - E. 40
9. The preferred food of squirrels is __?__.
- A. American Beauty Berry
 - B. Live oak
 - C. Hickory
 - D. Pecan
 - E. White Oak
10. Bobwhite Quail nesting usually begins a couple weeks after pairing and may extend through __?__.
- A. January
 - B. May
 - C. July
 - D. August
 - E. October

11. The water requirements of Bobwhite Quail is generally met from _?_.

- A. Dew
- B. Food consumed
- C. Surface water
- D. Both B & C
- E. All of the above

12. Incubation and nesting of Scaled Quail success fluctuates greatly primarily due to the unreliable nature of _?_ in West and South Texas.

- A. Excessive cover
- B. Hardwood trees
- C. Population control
- D. Rainfall
- E. None of the above

13. Pheasant chicks subsist entirely of _?_ for the first 5 weeks of their life?

- A. Forbs
- B. Insects
- C. Seeds
- D. Zooplankton
- E. None of the above

14. Pheasants were introduced into the United States as early as _?_.

- A. 1790
- B. 1881
- C. 1891
- D. 1970
- E. None of the above

15. Turkey egg incubation period is _?_ days.

- A. 14 to 15
- B. 21
- C. 23
- D. 42-45
- E. None of the above

16. Turkeys are very sensitive to human disturbance, so they should not be hunted or bothered within a ? of their roost or nest.

- A. Quarter mile
- B. Half mile
- C. Mile
- D. Mile and a half

17. Most tree nest for Mourning Dove are placed 5 to ? feet above the ground.

- A. 10
- B. 15
- C. 20
- D. 25
- E. 30

18. Water is seldom a limiting factor for Mourning Dove due to their ?.

- A. Efficient digestive system
- B. Low water requirement
- C. Mobility
- D. Both B & C
- E. All of the above

19. Which of the following is not a puddle duck?

- A. Blue winged teal
- B. Canvasback
- C. Mallard
- D. Mottled duck
- E. Shoveler

20. Puddle ducks prefer water depths of 6 to ? inches of water.

- A. 12
- B. 18
- C. 24
- D. 36
- E. None of the above

Rusk FFA Invitational Wildlife CDE- 2015

Game Laws- Contest #1

1. It is a Class ? misdemeanor to fail to retrieve or to keep in an edible condition a whitetail or mule deer, pronghorn antelope, or hunted without landowner consent; from a vehicle, boat, or aircraft' at night or with the aid of a light.

A. A

B. B

C. C

D. D

2. Hunter orange is required on public and private property.

A. True

B. False

3. The TPWD Executive Director may temporarily prohibit taking or attempting to take alligator gar in specified areas for a period of not to exceed 30 days if there is an occurrence of moderate flood levels as defined by U.S. Geological Survey or water temperatures between ? to ?.

A. 50 to 70 F

B. 68 to 82 F

C. 72 to 94 F

D. 85 to 95 F

4. The Gear tag on throwlines and trotlines are valid for ? days after the date set.

A. 10

B. 20

C. 30

D. 40

5. Fishing by the use of hands only may be used to take ?.

A. Channel catfish

B. Blue catfish

C. Flathead catfish

D. All of the above

E. None of the above

6. If the head and carcass of a whitetail deer are separated the ? goes with the carcass and the ? goes with the head.

- A. Stamp : Tag
- B. Stamp : Wildlife Resource Document
- C. Tag : Wildlife Resources Document
- D. Wildlife Resources Document : Tag

7. What is the largest gauge for a legal shotgun?

- A. 8
- B. 10
- C. 12
- D. 20

8. When hunting migratory game birds a shotgun must be capable of holding no more than ? shells.

- A. 2
- B. 3
- C. 4
- D. 5

9. For youth duck seasons, it is any person ? years of age or younger.

- A. 9
- B. 12
- C. 15
- D. 16

10. It is lawful to use a silencer to take any wildlife resource assuming all federal, state and local laws are followed.

- A. True
- B. False

11. What is the minimum size of a broadhead used to hunt turkey and all game animals?

- A. 1/2" broadhead
- B. 3/4" broadhead
- C. 7/8" broadhead
- D. 1" broadhead

12. What is considered the final destination of a taken game animal?

- A. The person who took the animals private residence
- B. cold storage facility
- C. the person who receives the animal private residence
- D. both A and B
- E. all the above

13. Hunter who give any part of a game animal or game bird to a taxidermist for mounting must attach a _?_.

- A. copy of his/her hunting license
- B. tag from the hunting license
- C. wildlife resource document
- D. taxidermy information packet

14. A legal point on a White-tailed deer, in special antler restrictions counties, must be how long?

- A. Hang a ring
- B. $\frac{1}{2}$ inch
- C. $\frac{3}{4}$ inch
- D. 1 inch

15. Legal shooting hours for all game animals in Texas are:

- A. Sunrise to Sunset
- B. 5:00 am to 5:00 pm
- C. $\frac{1}{2}$ hour before sunrise to $\frac{1}{2}$ hour after sunset
- D. 6:00 a.m. to 6:00 p.m.

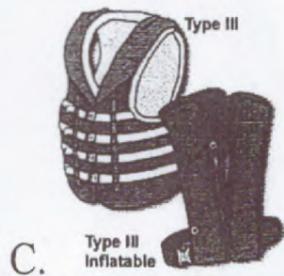
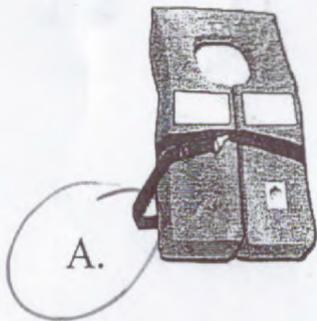
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Safety- Contest #1

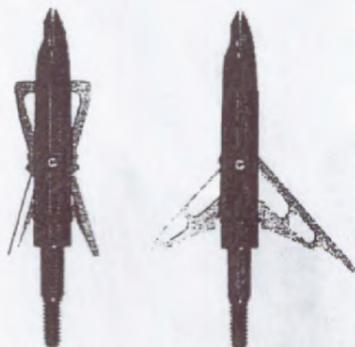
1. What color indicates the left side of the channel as a boater enters from the open sea or heads upstream?

- A. Blue
- B. Green
- C. Orange
- D. Red
- E. Yellow

2. Which of the following PFD's is most likely to turn most unconscious wearers face up?



3. The following picture is a ? type of arrowhead.



- A. Broadhead
- B. Bullet Point
- C. Judo Point
- D. Field Point
- E. Mechanical Broadhead

4. Which of the following shot angle is the preferred shot angle for both firearm and bow?

A.

B.

C.

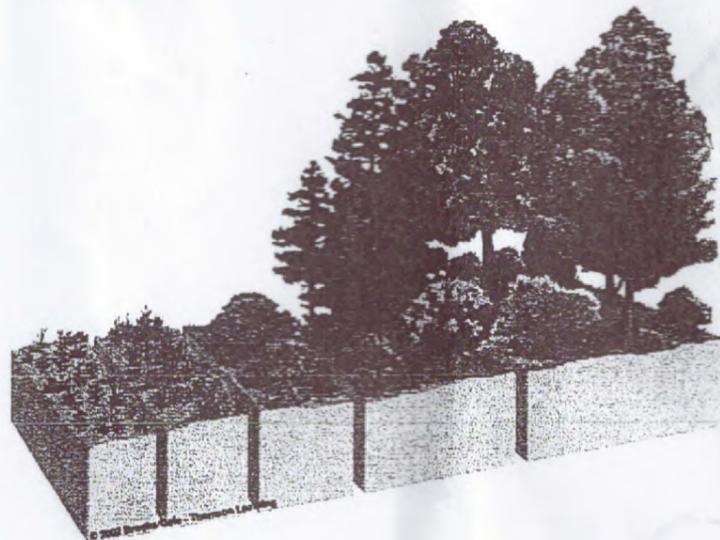


5. What three factors contribute to bacteria growth?

- A. cold, moisture, and dirt
- B. cold, dry, and dirt
- C. heat, moisture, and dirt
- D. heat, moisture, and time
- E. heat, dry, and time

6. The natural progression of vegetation and wildlife populations of an area is called ?_.

- A. Ecological succession
- B. Ecological drift
- C. Ecosystem change
- D. Community change
- E. None of the above



7. Which of the following is NOT recommended for the operation of an ATV?
- A. Pick your route carefully to minimize terrain damage
 - B. Shoot from an ATV only when in the neutral position
 - C. Stay on the main roads and trails
 - D. Use ATV's only to get to the hunting area or to haul an animal from the woods.
 - E. Wear a helmet approved by Department of Transportation
8. Which of the following elevated stands should not be used?
- A. Climbing stands
 - B. Hang-On stands
 - C. Homemade stands
 - D. Ladder stands
 - E. Tower stands
9. What does FAS stand for?
- A. Fall-Alert System
 - B. Fall-Arrest Strap
 - C. Fall-Arrest System
 - D. Full-body Arrest System
 - E. Full-body Arrest Strap
10. Before going out on a boat or PWC, it is always a good idea to file a __?__ with someone.
- A. Boater Education Card
 - B. Float Plan
 - C. Fishing Itinerary
 - D. Wildlife Resources Document
 - E. None of the above
11. The following Non-Lateral Marker indicates a __?__ area?



- A. Controlled
- B. Danger
- C. Exclusion
- D. Information

12. Which of the following is NOT one of the four main causes of Hunting Incidents?

- A. Hunter Judgement Mistakes
- B. Lack of Control and Practice
- C. Marksmanship
- D. Mechanical Failure
- E. Safety Rule Violations

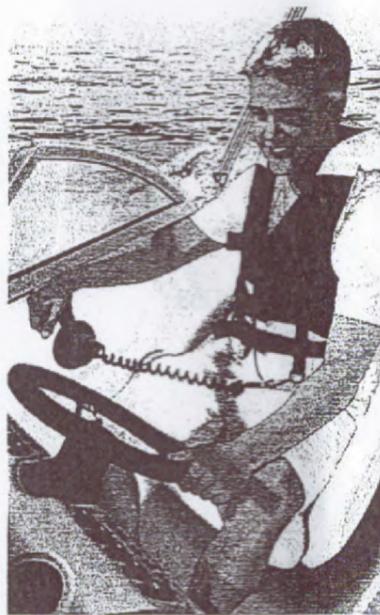
13. Use only ammunition that exactly matches the caliber or gauge marked on the ? of your firearm.

- A. barrel
- B. safety
- C. stock
- D. trigger
- E. None of the above

14. One can live ? minutes without air, ? hours without warmth, ? days without water and ? weeks without food.

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

15. Most powerboats and PWCs come equipped by the manufacturer with an emergency ? as picture below.



- A. Anti-Capsizing switch
- B. ATON (U.S. Aids to Navigation System)
- C. Ignition safety switch
- D. Self-circling feature
- E. Steering Compass

**Rusk FFA Invitational
Wildlife and Recreation Management CDE
Contest #1: May 11, 2015**

Directions: Evaluate the habitat in the designated area for the target species listed below. For Question 4, determine the quality and quantity of food, cover, and water for each species. After reading the section below under "Conditions," evaluate the site by filling in the correct bubble (A) for Adequate, or (D) for Deficient for food, cover and water for each of the three species listed. Mark your answer only on the scan sheet. Do not mark on this problem sheet. Turn this sheet in when you are finished. Then for Question 5, identify the management practices from the list given that should be used to manage the three species for maximum production in a wildlife setting. Be sure to mark the correct management practices for Question 5 on your scan sheet.

Conditions: The boundary flagged off represents my 500 acre property. I plan to manage the area for whitetail deer, squirrel, and wood ducks. The timber in the northwest corner of the flagged area is representative of the timber that is scattered throughout my property. I intend to manage this timber for optimum pine production. Observation and spotlight data have shown that the buck to doe ratio is 1:3 and there is one deer to every 5 acres. The creek running through the eastern portion of the flagged area is representative of the creek that runs through this property. The creek is spring fed, has an average depth of 12" and maintains a minimum average depth of 6" even in drought years. Duckweed, smartweed, and cattail are present within the creek throughout the entire property. I have installed several wood duck boxes throughout the property for nesting.

Question 4- Habitat Evaluation

	Species #1 Whitetail Deer		Species #2 Squirrel		Species #3 Wood Duck	
Food	A	D	A	D	A	D
Cover	A	D	A	D	A	D
Water	A	D	A	D	A	D

Question 5- Habitat Management

Use the scenario above for Question 5. Use that information plus information gained from viewing the site to determine which habitat management practices to use to maximize production of the target species listed in Question 4. From the list provided, select only those of the management practices needed. Fill in the "N" bubble to the right of any practice not used. If the target species will require the management practice, fill in the "Y" under the species and beside the corresponding practice. Consider only these practices.

1. Animal Damage
2. Population Management
3. Food Plots
4. Grazing Management
5. Prescribe Burning
6. Provide and Manage Water
7. Disking
8. Overseeding Legumes
9. Thin Timber
10. Retain Large Hardwoods
11. Streamside Management Zones