Week 11 Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) Which one of the following options is correct for windbreaks/shelterbelts?
   A) They can substantially improve the productivity of farmlands
   B) They are exposed to strong winds
   C) Both (a) & (b)
   D) None of these

   - [ ] A)
   - [ ] B)
   - [ ] C)
   - [ ] D)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   C)

2) The best windbreaks approach is 100% crown density in the low-profile shrub rows and _____ density in the tall rows, depending on depth of approach and upstream slope.
   A) 50%
   B) 60%
   C) 70%
   D) 80%

   - [ ] A)
   - [ ] B)
   - [ ] C)
   - [ ] D)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   A)
Farm structures should be located at a distance within _______ to get an effective protection from wind.
A) 15-20 times height of shelterbelt
B) 10-15 times height of shelterbelt
C) 2-7 times height of shelterbelt
D) None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: C)

Which of the following case is true for star dunes?
A) Star dunes are formed when winds are multidirectional and variable in magnitude.
B) Star dunes are formed when winds are variable in magnitude.
C) Star dunes are formed when winds are unidirectional and variable in magnitude.
D) Star dunes are formed when winds aligned perpendicular to the dunes.

No, the answer is incorrect.
Score: 0
Accepted Answers: A)

After proper design and establishment of the windbreak, the farmer needs to pay attention on which of the following protection options, for proper management of windbreak?
A) Grazing protection
B) Fire protection
C) Pruning
D) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: D)
Why do permeable shelter belts offer better protection than impermeable shelter belts?

A) Permeable belts increase turbulence therefore causing greater air friction and heat generation
B) In a permeable shelter belt the lower layer of air acts like a cushion to extend the reduction in wind speed over a longer distance
C) A permeable shelter belt causes a greater reduction in wind speed close to the belt
D) None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: B)

Fig. 1 Sand dune (Source: Slideshare.com)

The sand dune shown in Fig. 1 is a _______ dune.
A) Barchan
B) Transverse
C) Blowout
D) Linear

No, the answer is incorrect.
Score: 0
Accepted Answers: B)
8) The wind direction which would create barchan dune is __________.
A) North to south
B) South to north
C) East to west
D) West to east

No, the answer is incorrect.
Score: 0
Accepted Answers: A)

9) Erosive wind energy increases by a factor equal to the ________.
A) (velocity)$^3$
B) (velocity)$^2$
C) (velocity)$^{1/3}$
D) (velocity)$^3$

No, the answer is incorrect.
Score: 0
Accepted Answers: D)

10) Long sand ridges that are more or less parallel to the prevailing wind are called ________
A) barchan dunes
B) linear dunes
C) transverse dunes
D) blowouts

No, the answer is incorrect.
Score: 0
Accepted Answers: B)