

# TEST

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Company: \_\_\_\_\_

Please circle the appropriate answer.

## INTRODUCTION/AREAS OF SPECIAL CONCERN

- 1) What is the process where soil particles become dislodged by wind, rainfall, or ice?
  - a) Evaporation
  - b) Sedimentation
  - c) Erosion
  
- 2) What is the process where soil particles detached by wind, rainfall, or ice are deposited to another location?
  - a) Sedimentation
  - b) Condensation
  - c) Erosion
  
- 3) Which of the following are factors that contribute to erosion?
  - a) Rainfall
  - b) Slopes
  - c) Soil type
  - d) All of the above
  
- 4) Which of the following are adverse effects of excessive erosion/sedimentation?
  - a) Reduction of natural flood storage capacities in waterways
  - b) Causes too much turbidity in water resources adding cost to water treatment and impacts aquatic life
  - c) Catastrophic failure of roads and other facilities
  - d) Additional cost to maintenance of stormwater conveyance systems
  - e) Destruction of spawning areas, food sources and habitat within streams
  - f) All of the above
  
- 5) What is the best way to schedule the work at a construction site in order to reduce both erosion and sedimentation?
  - a) Install ditches leading directly to the receiving stream
  - b) Minimize the amount and duration of soil disturbance
  - c) Sweep up all disturbed areas every night
  - d) Clear a larger area than what is necessary to complete the work
  - e) All of the above
  
- 6) A riparian area must be protected because:
  - a) Runoff is purified as it flows across the buffer
  - b) It provides a self maintaining drainage system
  - c) The Ripars need someplace to live
  - d) Provides flood storage and allows groundwater recharge
  - e) A, B and D only

**SEDIMENT CONTROL PRACTICES**

7) Which of the following is the principle that allows silt fence to be effective as a sediment control practice?

- a) By heating the water to increase evaporation through the fabric
- b) By reducing flow velocity and ponding the runoff to allow sediment to settle out
- c) By concentrating flow and diverting the runoff to the sides of the fence
- d) All of the above

8) Which of the following are the most important installation techniques in order for the silt fence to be effective?

- a) Installing the fence where people can see it
- b) Trenching the fence 6" into the ground and backfilling
- c) Installing the fence along the contour of the slope
- d) Turning the ends of the fence upslope
- e) B, C and D only

9) Which of the following are advantages of mulch/woodchip berms versus silt fence and super silt fence?

- a) Woodchip berms can be made from onsite materials
- b) Can be applied in any configuration or adjust to outline of areas
- c) It amends native soil and assist in vegetation establishment
- d) Can be easily incorporated when job is completed
- e) All of the above

10) Mulch/woodchip berms can be made from what materials?

- a) Demolition debris from tearing down structures
- b) Tree mulch or organic matter ranging from 1/3" to 3" in size
- c) Trees stacked in a pile from clearing operations
- d) All of the above

11) Storm drain inlets need to be protected because:

- a) Storm drains outlets into creeks and streams and provide a conduit for sediment to leave the site
- b) The drainage systems are new and should not be used
- c) It makes nice ponds for kids to play
- d) Pipes should not be clogged with too much water
- e) All of the above

**EROSION PREVENTION PRACTICES**

12) Planting vegetation is an important erosion control measure because it:

- a) Protects the soil from the impact of rain
- b) Increases rain and runoff penetration into the soil
- c) Holds the soil in place
- d) Provides a natural filter for sediment
- e) All of the above

13) What should happen to an area that achieves final grade?

- a) Photographs should be taken
- b) It should be left alone and not touched
- c) Stabilized with grass seed and straw
- d) All of the above

## Erosion Prevention and Sediment Control Field Handbook Test

- 14) When applying dormant seeding (seeding done from November 20 to March 15) on disturbed areas, how much increase in the seeding rate should be applied?
- a) 50%
  - b) 100%
  - c) 200%
  - d) Apply seed as you would for normal seeding
- 15) Which of the following is used to establish vegetation in easily eroded areas such as channels and steep slopes?
- a) Erosion Control Matting
  - b) Asphalt
  - c) Culvert
  - d) All of the above
- 16) A stream crossing is installed for what purpose?
- a) To act as a dam to restrict flow
  - b) Gives the stream some contour that oxygenates the water
  - c) Acts as temporary crossing for all construction equipment
  - d) All of the above
- 17) A stream crossing should be located where?
- a) At the deepest part of the stream
  - b) At the nearest bend in the creek bed
  - c) At a shallow, straight section with minimal clearing
  - d) It can be installed in any convenient location
- 18) The best method for installing utility lines through a stream is:
- a) Clearing large swaths of the stream bank to make plenty of room.
  - b) Rerouting the stream wherever needed so that it gets out of the work area.
  - c) Stretching the work out so that it takes more time than necessary.
  - d) Limit extent of clearing and duration of work in the stream.
  - e) All of the above
- 19) What materials are permitted to be used as fill placed within the channel in a stream ford or culvert crossing?
- a) Soil or other erodible material
  - b) Abandoned vehicles or appliances
  - c) Tree debris from clearing
  - d) Clean aggregate, stone or rock
  - e) All of the above
- 20) Construction entrances are installed for what reason?
- a) To filter the mud when it rains
  - b) Give vehicles a place to park out of the mud
  - c) Keep the aggregate companies in business
  - d) The rock "super-heats" in the sunlight and evaporates the stormwater runoff