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
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