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***** EXAMINATION *****

SOIL MANAGEMENT AND SOIL QUALITY FOR ORGANIC CROPS

1. **Soil provides for**
 - a) plant health
 - b) human health
 - c) animal health
 - d) All of the above

2. **The ability of soil to perform its functions are**
 - a) soil quality
 - b) soil health
 - c) both a and b
 - d) None of the above

3. **For humans and animals, soil differs from air and water**
 - a) because it is not consumed
 - b) because it has properties
 - c) both a and b
 - d) neither a nor b

4. **Rooting depth is**
 - a) a physical property of soil
 - b) a chemical property of soil
 - c) a biological property of soil
 - d) None of the above

5. **Disease suppressiveness is**
 - a) a physical property of soil
 - b) a chemical property of soil
 - c) a biological property of soil
 - d) None of the above

6. **Electrical conductivity is**
 - a) a physical property of soil
 - b) a chemical property of soil
 - c) a biological property of soil
 - d) None of the above

7. **Soil quality tests are being developed by**
 - a) the US Department of Commerce
 - b) the United Nations
 - c) the USDA Natural Resources Conservation Service
 - d) All of the above

8. **Soil properties include**
 - a) aggregate stability
 - b) infiltration rate
 - c) biological activity
 - d) All of the above

9. **Large quantities of fresh organic matter**
 - a) added to soil may stimulate plant pathogenic organisms
 - b) may destroy the soil
 - c) may clean the soil
 - d) All of the above

10. **Cabbage maggots and wireworms**
 - a) may stimulate nitrates in the soil
 - b) can cause serious crop losses
 - c) may leave the soil valueless
 - d) All of the above

11. **Soil fertility is often augmented by**
 - a) application of manure
 - b) application of compost
 - c) both a and b
 - d) None of the above

12. **Crop rotation**
 - a) makes for productive soil
 - b) may be useless in some cases
 - c) may be useless in all cases
 - d) None of the above

13. **Grain crops such as wheat may add**
 - a) 2,000 to 4,000 pounds of dry matter after harvest
 - b) 4,000 to 6,000 pounds of dry matter after harvest
 - c) 6,000 to 8,000 pounds of dry matter after harvest
 - d) 8,000 to 10,000 pounds of dry matter after harvest

14. **Composts added to the soil are associated with**
 - a) improved tilth
 - b) lower bulk density
 - c) increased water infiltration
 - d) All of the above

15. **Green manuring is also known as**
- a) green composting
 - b) cover cropping
 - c) crop stripping
 - d) enhanced fertilizing
16. **The use of cover crops may result in**
- a) soil moisture depletion
 - b) temporary immobilization of plant nutrients
 - c) increased pest problems
 - d) All of the above
17. **Tillage has**
- a) a negative effect on soil organic management
 - b) a positive effect on soil organic management
 - c) a minimum effect on soil organic management
 - d) no effect on soil organic management
18. **Intensive tillage may lead to soil carbon losses**
- a) of 10 to 20 per cent
 - b) of 20 to 30 per cent
 - c) of 30 to 50 per cent
 - d) of 50 to 80 per cent
19. **Winter annual cover crops may include**
- a) rye and vetch
 - b) corn and sorghum
 - c) tomatoes and beets
 - d) None of the above
20. **Cover crops mowed and converted to mulch**
- a) reduce weed emergence
 - b) lower soil temperatures during hot summer months
 - c) act as a slow-release fertilizer
 - d) All of the above

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*** ANSWER SHEET *** U389 SOIL MANAGEMENT AND SOIL QUALITY FOR ORGANIC CROPS	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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