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***** EXAMINATION *****

MAINTENANCE AND REPAIR OF SURFACE AREAS

1. **Once deterioration of a surface has started,**
 - a) it will proceed slowly
 - b) it may stop
 - c) it can proceed very rapidly
 - d) All of the above

2. **Delays in maintenance of deterioration may later require**
 - a) maintenance of the base
 - b) maintenance of the sub-base
 - c) maintenance of the subgrade
 - d) All of the above

3. **Priority in making repairs depends on**
 - a) traffic intensity
 - b) time of the year
 - c) the voters
 - d) All of the above

4. **Road closures can be publicized by**
 - a) inter-office memos
 - b) newspapers
 - c) both a and b
 - d) None of the above

5. **Repair of existing surfaces should conform to the original**
 - a) construction in design
 - b) construction in appearance
 - c) construction in texture
 - d) All of the above

6. **For maintenance of land held under lease, consider the**
 - a) length of the lease
 - b) starting date of the existing lease
 - c) age of the surface requiring maintenance
 - d) All of the above

7. **A material survey**
- a) keeps track of commercial material sources
 - b) keeps track of existing pavement types
 - c) keeps track of costs of material used
 - d) All of the above
8. **A surface overlay will**
- a) increase the strength of the pavement structure
 - b) improve the quality of the surface
 - c) both a and b
 - d) None of the above
9. **Safety signs and markings should include**
- a) road markings
 - b) maximum overhead structure clearances
 - c) safe load limits
 - d) All of the above
10. **The subgrade is the**
- a) natural in-place soil under a pavement
 - b) natural in-place soil over a pavement
 - c) compacted soil under a pavement
 - d) compacted soil over a pavement
11. **Clay has a**
- a) low strength in an undisturbed state
 - b) high strength in an undisturbed state
 - c) high strength in a disturbed state
 - d) None of the above
12. **The greatest maintenance problems for permafrost areas**
- a) occur in spring and summer
 - b) occur in spring and early fall
 - c) occur in summer and winter
 - d) occur in fall and winter
13. **The stresses in the base courses are**
- a) always higher than those in the subgrade
 - b) always lower than those in the subgrade
 - c) equal to those in the subgrade
 - d) None of the above
14. **A suitable material for a base course is**
- a) organic material
 - b) semi-organic material
 - c) gravel with a binder
 - d) Any of the above

15. **A suitable recycled material for a base course is**
- a) broken portland cement concrete
 - b) broken glass
 - c) organic material
 - d) Any of the above
16. **Caliche should be crushed to a**
- a) maximum size of one inch
 - b) maximum size of two inches
 - c) maximum size of three inches
 - d) maximum size of four inches
17. **A compacted deposit of fine materials ejected from volcanoes**
- a) is known as tuff
 - b) is known as caliche
 - c) is known as coral
 - d) None of the above
18. **Uniform mixing and blending of materials are essential for**
- a) flexibility
 - b) seepability
 - c) durability
 - d) All of the above
19. **During compaction, water content can be maintained by**
- a) rewetting if too dry
 - b) blading if too wet
 - c) aerating if too wet
 - d) All of the above
20. **A slurry seal is a mixture of**
- a) slow-setting asphalt emulsion
 - b) crushed fine aggregate
 - c) mineral filler and water
 - d) All of the above

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*** ANSWER SHEET *** U420 MAINTENANCE AND REPAIR OF SURFACE AREAS	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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