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***** EXAMINATION *****

**RIGID PAVEMENTS FOR ROADS, STREETS,
WALKS, AND OPEN STORAGE AREAS**

- 1. The prime factor influencing the structural design of a**
 - a) pavement is the width of the pavement
 - b) pavement is the length of the pavement
 - c) pavement is the load-carrying capacity
 - d) All of the above

- 2. Stabilization material used to improve unsuitable soils is**
 - a) lime
 - b) cement
 - c) fly ash
 - d) All of the above

- 3. The foundation for supporting the pavement is**
 - a) the ditch
 - b) the centerline
 - c) the subgrade
 - d) None of the above

- 4. All soils should be classified in accordance with**
 - a) the United States Army
 - b) the Unified Soil Classification System
 - c) the Department of Transportation
 - d) the U.S. Constitution

- 5. Soil tests made at locations at the construction site are:**
 - a) traffic counts
 - b) rain density counts
 - c) compaction tests
 - d) road usage tests

- 6. All fills should be compacted to a minimum of:**
 - a) 60% maximum density
 - b) 70% maximum density
 - c) 80% maximum density
 - d) 90% maximum density

7. **Materials unsuitable for pavement upgrades are:**
- a) organic soils
 - b) clay
 - c) both a and b
 - d) None of the above
8. **Base courses over all subgrades will be a minimum of:**
- a) 2 inches in thickness
 - b) 3 inches in thickness
 - c) 4 inches in thickness
 - d) 5 inches in thickness
9. **How many groups are pneumatic-tired vehicles divided into:**
- a) 2
 - b) 3
 - c) 4
 - d) 5
10. **Steel reinforcement should be used for**
- a) odd-shaped slabs or mismatched joints
 - b) right-of-ways larger than 10 feet
 - c) right-of-ways larger than 20 feet
 - d) right-of-ways larger than 30 feet
11. **The maximum length of reinforced rigid pavement slabs**
- a) should not exceed 55 feet
 - b) should not exceed 65 feet
 - c) should not exceed 75 feet
 - d) should not exceed 85 feet
12. **The minimum thickness of reinforced rigid pavements**
- a) should be 2 inches
 - b) should be 4 inches
 - c) should be 3 inches
 - d) should be 6 inches
13. **One general type of joint used in rigid pavements is**
- a) expansion
 - b) cement
 - c) rock
 - d) None of the above
14. **A joint to control contraction cracking from temperature**
- a) is a construction joint
 - b) is an expansion joint
 - c) is a contraction joint
 - d) is a straight joints

15. **Joints used to separate the areas of concrete placed**
- a) at different times are construction joints
 - b) at different times are expansion joints
 - c) at different times are contraction joints
 - d) at different times are straight joints
16. **Joints used for the relief of forces resulting from**
- a) thermal expansion are contraction joints
 - b) thermal expansion are expansion joints
 - c) thermal expansion are straight joints
 - d) thermal expansion are construction joints
17. **Concrete bonding with dowels should be prevented by:**
- a) plastic
 - b) wood
 - c) grouting
 - d) grease
18. **Keyed joints are constructed to provide:**
- a) chemical transfer at the joint
 - b) load transfer at the joint
 - c) both a and b
 - d) None of the above
19. **Parking areas should be designed**
- a) for heavy vehicles
 - b) for railroads
 - c) for light vehicles
 - d) for airplanes
20. **Existing pavement to be overlaid and composed of a**
- a) portland cement concrete is a flexible base pavement
 - b) portland cement concrete is a rigid base pavement
 - c) portland cement concrete is a composite pavement
 - d) portland cement concrete is an overlay pavement

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*** ANSWER SHEET *** U431 RIGID PAVEMENTS FOR ROADS, STREETS, WALKS, AND OPEN STORAGE AREAS	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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