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Examination for Standard Practice for Concrete Pavements

1. Typical design values for flexural strength of paving-quality concrete are?
 - a) 250 to 500 psi
 - b) 500 to 750 psi
 - c) 750 to 800 psi
 - d) 800 to 900 psi

2. The water-cement ratio to strength relations for mixture proportioning in ACI 211.1 are given in terms of what?
 - a) Compressive strength
 - b) Flexural strength
 - c) Design strength
 - d) Modulus of rupture

3. What percentage of consecutive 14-day flexural strength test results should fall above the established field control strength?
 - a) 60 percent
 - b) 70 percent
 - c) 80 percent
 - d) 90 percent

4. What size molded beam specimen must be used for all flexural strength determinations?
 - a) 2" x 2"
 - b) 4" x 4"
 - c) 6" x 6"
 - d) 8" x 8"

5. Type III cement has a three-day compressive strength approximately equal to what?
 - a) Type II cement's 7-day strength
 - b) Type I cement's 7-day strength
 - c) Type I cement's 3-day strength
 - d) Type II cement's 14-day strength

6. Portland-slag cement is known as what?
- Type K
 - Type IP
 - Type S
 - Type IS
7. Which of the following statements is not true?
- Coarse aggregate size should not exceed one-fourth of the pavement thickness
 - In no case shall coarse aggregate exceed a 2 inch maximum size
 - 3 inch coarse aggregate is allowed on an approval basis
 - Where aggregate popouts have occurred, the coarse aggregate will not exceed 1-1/2"
8. Un-aged blast furnace slag may contain what?
- Magnesium oxide
 - Free lime
 - Calcium oxide
 - Silica
9. What is the maximum percentage by weight of material finer than No. 200 sieve allowed in fine aggregate?
- 0.5 percent
 - 1.0 percent
 - 3.0 percent
 - 5.0 percent
10. What types of aggregate are acceptable in concrete exposed to extended jet engine blast?
- Igneous rocks with a high silica content
 - Quartzite or chert
 - Sandstone or granite
 - Limestone or dolomite
11. Which class of pozzolan has poor resistance to sulfate attack?
- Class C
 - Class N
 - Class F
 - Class A
12. What must be done prior to changing the type of cementitious material stored in a storage facility?
- Approval must be obtained
 - The area must be thoroughly cleaned
 - The area must be made weather-tight
 - It must be ventilated

13. The water-cement ratio should not exceed what for pavement mixtures?
- a) 0.25 by weight
 - b) 0.35 by weight
 - c) 0.45 by weight
 - d) 0.55 by weight
14. Concrete slump is to be determined in the field by the method described in what standard?
- a) ASTM C 143
 - b) ASTM C 192
 - c) ASTM C 78
 - d) ASTM C 618
15. Which of the following is not listed as a base material?
- a) Granular material or lime
 - b) Cement
 - c) Natural soil
 - d) Asphalt-stabilized material
16. Which of the following statements is true?
- a) Wire string lines do not require anchored supports
 - b) Cord string lines are less easily disturbed
 - c) Wire string lines do not require flagging
 - d) Cord string lines are easy to see
17. What is the minimum capacity of mixed concrete for mixers required for airfield paving projects?
- a) 3 cubic yards
 - b) 5 cubic yards
 - c) 7 cubic yards
 - d) 8 cubic yards
18. In general, truck mixers should only be used on jobs requiring how much concrete?
- a) 2,500 cubic yards or less
 - b) 3,500 cubic yards or less
 - c) 4,500 cubic yards or less
 - d) 5,500 cubic yards or less
19. What admixture may be used to accelerate the setting time of concrete placed during cold weather?
- a) Magnesium oxide
 - b) Calcium chloride
 - c) Calcium oxide
 - d) Silica

20. Using Figure-1, what is the predicted rate of evaporation for concrete placed in the following conditions: air temp. = 80°F; relative humidity = 40%; concrete temp. = 80°F; wind velocity = 20 mph?

- a) 0.20 pounds per square foot per hour
- b) 0.25 pounds per square foot per hour
- c) 0.30 pounds per square foot per hour
- d) 0.35 pounds per square foot per hour

21. True/False: The predicted rate of evaporation determined in question 20 is acceptable?

- a) True
- b) False
- c) Not enough information for answer
- d) Too many variables for specific answer

22. Uncontrolled cracking of overlay pavements at contraction joints is likely to occur when?

- a) During humid weather
- b) During windy weather
- c) During cold weather
- d) During hot weather

23. Which of the following surface texture finishing techniques provides the most skid resistance?

- a) Burlap drag
- b) Broom
- c) Wire comb
- d) Artificial turf

24. When tested with a 10 foot straightedge, parking area pavement surfaces shall not vary more than how far from the testing edge of the straightedge?

- a) 1/8 inch
- b) 1/4 inch
- c) 3/8 inch
- d) 1/2 inch

25. Pavement cores drilled for checking thickness as well as for testing compressive and tensile strength will have a diameter of no less than what?

- a) 2 inches
- b) 4 inches
- c) 6 inches
- d) 8 inches

26. Which of the following is not listed as a type of construction joint?
- a) Insert-type
 - b) Thickened edge
 - c) Keyed and tied
 - d) Doweled
27. What type of joint is installed across the pavement lane when concrete placement is stopped or interrupted for more than 30 minutes?
- a) Expansion joint
 - b) Transverse construction joint
 - c) Filler-type contraction joint
 - d) Longitudinal thickened edge construction joint
28. Concrete placed during warm weather will usually be ready for sawing transverse contraction joints how long after placement?
- a) 45 minutes
 - b) 1 to 3 hours
 - c) 3 to 6 hours
 - d) 6 to 12 hours
29. Operation of construction equipment on previously constructed slabs will be permitted only when the concrete is more than 72 hours old and has a flexural strength of what?
- a) At least 200 pounds per square inch
 - b) At least 400 pounds per square inch
 - c) No more than 400 pounds per square inch
 - d) No more than 200 pounds per square inch



Answer Sheet for Standard Practice for Concrete Pavements
 TPDH-00010

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Please completely fill in one box for each answer

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