

**GEOGRAPHIC INFORMATION SYSTEMS  
GEOGRAPHIC INFORMATION CENTER  
PO BOX 5839  
MC ALLEN, TEXAS 78502-5839**

**1-800-522-0139**

**kh@acnet.net  
Copyright 2010**

---

**\*\*\* EXAMINATION \*\*\***

**CONCRETE FLOOR SLABS ON GRADE SUBJECTED TO HEAVY LOADS**

1. **The military's general vehicle classifications are:**
  - a) forklift trucks
  - b) tracked vehicles
  - c) other pneumatic and solid tired vehicles
  - d) all of the above
  
2. **Floor slab design requirements are established in terms of:**
  - a) the over sized load
  - b) the standard load
  - c) the small load
  - d) the large load
  
3. **Traffic data required to determine floor slab thickness:**
  - a) Types of vehicles
  - b) climate of location
  - c) speed limit
  - d) average speed traveled
  
4. **The weight carried by the drive axle of a forklift truck is:**
  - a) normally 83% to 91% of the gross weight
  - b) normally 85% to 92% of the gross weight
  - c) normally 87% to 94% of the gross weight
  - d) normally 89% to 96% of the gross weight
  
5. **Each axle on a conventional truck should be considered as:**
  - a) one truck axle
  - b) one forklift truck axle
  - c) two forklift truck axles
  - d) three forklift truck axles
  
6. **The general suitability of the subgrade soil is to be based:**
  - a) on classification of the soil
  - b) moisture density relationships
  - c) expansive characteristics
  - d) all of the above

7. **All soils should be classified in accordance with:**
- a) MIL-STD-617
  - b) MIL-STD-618
  - c) MIL-STD-619
  - d) MIL-STD-620
8. **The act of freezing and thawing is termed:**
- a) frost action
  - b) arctic weather
  - c) winter weather
  - d) winter action
9. **Stationary-partition loads are expressed in terms of:**
- a) ounces per linear foot
  - b) pounds per linear foot
  - c) tons per linear foot
  - d) none of the above
10. **Compaction improves stability of most:**
- a) stabilized soils
  - b) dry soils
  - c) wet soils
  - d) subgrade soils
11. **Cohesive subgrade soils should be compacted to a minimum of:**
- a) 70% of CE 55 maximum density
  - b) 80% of CE 55 maximum density
  - c) 90% of CE 55 maximum density
  - d) 100% of CE 55 maximum density
12. **Backfilling around walls should be performed with:**
- a) gasoline-powered tampers
  - b) pneumatic tampers
  - c) other mechanized hand-operated devices
  - d) all of the above
13. **Base courses may be required under:**
- a) rigid floor slabs
  - b) cracked floor slabs
  - c) solid floor slabs
  - d) cold floor slabs
14. **Where base courses are used the base course materials:**
- a) should be dampened
  - b) should be compacted
  - c) should be stabilized
  - d) should be dried

15. **To prevent water being trapped under the pavement:**
- a) no drainage should be provided
  - b) negative drainage should be provided
  - c) positive drainage should be provided
  - d) none of the above
16. **Mismatched joints normally will occur at intersections of:**
- a) intersections
  - b) crossroads
  - c) floor slabs
  - d) none of the above
17. **The general types of joints are:**
- a) contraction
  - b) construction
  - c) isolation
  - d) all of the above
18. **Construction joints are provided to separate areas of:**
- a) concrete placed at different times
  - b) concrete that has shifted
  - c) concrete that has cracked
  - d) concrete that has been removed
19. **The primary function of dowels in floor slabs is that of a:**
- a) special joint
  - b) load transfer device
  - c) crack repair
  - d) none of the above
20. **The minimum thickness for JFC floor slabs will be:**
- a) 2 inches
  - b) 3 inches
  - c) 4 inches
  - d) 5 inches

GEOGRAPHIC INFORMATION SYSTEMS  
 GEOGRAPHIC INFORMATION CENTER  
 PO BOX 5839  
 MC ALLEN, TEXAS 78502-5839

1-800-522-0139  
 kh@acnet.net  
 Copyright 2010

<b>*** ANSWER SHEET *** U454</b>  <b>CONCRETE FLOOR SLABS ON GRADE          SUBJECTED TO HEAVY LOADS</b>	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
			8 PDH
Office Use Only			

FILL IN ONE BOX FOR EACH ANSWER.

	A	B	C	D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

I hereby certify that I studied the course materials, and the above answers are my own. No one has helped me to complete this exam.

\_\_\_\_\_  
 Signature Date

\_\_\_\_\_  
 Printed or typed name

\_\_\_\_\_  
 Seal or Number

**GEOGRAPHIC INFORMATION SYSTEMS  
GEOGRAPHIC INFORMATION CENTER  
PO BOX 5839  
MC ALLEN, TEXAS 78502-5839**

**(800) 522-0139**

**kh@acnet.net  
Copyright 2010**

---

**Name** \_\_\_\_\_

**Company** \_\_\_\_\_

**Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Telephone** \_\_\_\_\_ **E-Mail** \_\_\_\_\_

**Fax** \_\_\_\_\_  **24-Hour Fax**

**Yes**  **No** **If fax and telephone are the same number, shall we call first?**

**Mail the certificates to above address** \_\_\_\_\_ **check address** \_\_\_\_\_ **envelope address**

**State + Specialty + PE Registration number (i.e. TX EE 12389)** \_\_\_\_\_

**State + Professional Land Surveying registration number** \_\_\_\_\_

**NC (North Carolina) + Specialty + PE Registration number** \_\_\_\_\_

**NC (North Carolina) + Professional Land Surveying registration number** \_\_\_\_\_

**Professional Affiliations** \_\_\_\_\_

Return this page with your answer sheet and a check or money order for \$100 per course. Use one check for each registrant (in your company) taking one or more courses. We accept company checks (if they are your employer's). We do not accept third-party checks or checks outside of your city of residence. Using third-party checks that do not include your name or company name may invalidate your professional development hours being reviewed by an audit process. Add \$5 for same day processing and priority shipping.

Make checks or money orders payable to Geographic Information Systems.

