

QUIZ NO: 540

TOPIC: TRANSPORTATION ENGINEERING

DATE: 11/01/2022

1. In highway pavements emulsions are mainly used in

- [A] Surface dressing
- [B] Patching and maintenance
- [C] Bitumen macadam
- [D] Asphaltic concrete

Answer: B

2. Base course is used in rigid pavements for

- [A] Prevention of sub grade settlement
- [B] Prevention of slab cracking
- [C] Preventing of pumping
- [D] Preventing of thermal expansion

Answer: C

3. Plate bearing test with 20 cm diameter plate on soil subgrade yielded a pressure of $1.25 \times 10^5 \text{ N/mm}^2$ at 0.5 cm deflection. What is the elastic modulus of subgrade?

[A] $56.18 \times 10^5 \text{ N/mm}^2$
[B] $22.10 \times 10^5 \text{ N/mm}^2$
[C] $44.25 \times 10^5 \text{ N/mm}^2$
[D] $50.19 \times 10^5 \text{ N/mm}^2$

Answer: C

4. If a two-lane National Highway and a two-lane State Highway intersect at right angles, the number of potential conflict point at the intersection, assuming that both the roads are oneway is

[A] 11
[B] 6
[C] 24
[D] 32

Answer: B

5. The width of expansion joint gap is 2.5 cm in a cement concrete pavement. The spacing between expansion joint for a maximum rise in temperature of 25°C is, (assuming coefficient of thermal expansion of concrete as 10×10^{-6} per degree C)

[A] 5 m
[B] 50 m
[C] 100 m
[D] 25 m

Answer: B

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6. The plate load test conducted with a 75 cm diameter plate on soil sub grade yielded a deflection of 2.5 mm under a stress of 800 N/cm^2 . The modulus of elasticity of the subgrade soil, in kN/cm^2 , is

- [A] 141.6
- [B] 154.6
- [C] 160.0
- [D] 185.4

Answer: A

7. The percent voids in mineral aggregate (VMA) and percent air voids (VV) in a compacted cylindrical bituminous mix specimen are 15 and 4.5 respectively. The percent voids filled with bitumen (VFB) for this specimen is:

- [A] 24
- [B] 30
- [C] 54
- [D] 70

Answer: D

8. Given the sight distance as 120 m. The height of driver's eye as 1.5 m and the height of object is 0.15 m. Grade difference of international gradient is 0.09. The required length of summit parabolic curve.

- [A] 25 m
- [B] 125 m
- [C] 250 m
- [D] 500 m

Answer: C

9. The important factor considered in the design of summit curves on highway is

- [A] Comfort to passengers
- [B] Sight distance
- [C] Super elevation
- [D] Impact factor

Answer: B

10. A well designed signalized intersection is the one in which

- [A] Crossing conflicts are increased
- [B] Total delay is minimized
- [C] Cycle time is equal to the sum of red and green times in all phases
- [D] Cycle time is equal to the sum of red and yellow times in all phases

Answer: B

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